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O could I wanton—rove like thee On filken wing, from bud to tree, My blifs would never cloy

Here! from you wood sad Philomel
Her love-lorn anguish mildly tell;
Soft trills her tender woe:
The bee her labor has begun,
And sips the produce of the sun:
Then haste, my sy, to go.

When winter comes, seek out my cell,
Again with grief and me to dwell,
And mourn thy long-lost bliss;
But lest my soul ere then be fled,
This form be mingl'd with the dead,
Take thou a parting kiss.

SONNET.

BY CHARLOTTE SMITH.

FAR on the fands, the low, retiring tide,
In diffant murmurs hardly feems to flow;
And o'er the world of waters, blue and wide,
The fighing fummer-wind forgets to blow.

He finks the day-star in the rosy west,

The filent wave, with rich reflection, glows:

Alas! can trarquil nature give me rest,

Or scenes of beauty soothe me to repose!

Can the foft lustre of the sleeping main,
You radiant Heav'n, or all creation's charms,
"Erase the written troubles of the brain,"
Which mem'ry tortures, and which guilt alarms?
Or bid a bosom transient quiet prove,
That bleeds with vain remorse, with un-extinguish'd love?

TO THE

THIRD VOLUME:

PROSE.

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In

That cot where my Leontine dwelt, And cultur'd each elegant art; Where love's first impression he felt, And taught it to glow in my heart.

I pass'd it—and mourfully came
To the darksome abode of the dead;
Where a stone, just engrav'd with his name,
Shew'd where Leontine pillow'd his head.

A moss-cover'd arch forms his tom b, Lightly trimm'd with the blossoms of May; There violets breathing perfume, Sweetly hail the arrival of day,

There blended with tall sprigs of rue,
Grows the wild-scented-thyme of the heath;
While resemany, trickling with dew,
Wets the thought-wakening-pansy beneath.

Emblematic of Leontine's truth,
At his head a green myrtle I've plac'd;
While the feet of the amiable youth,
With a maiden's-blush rose-tree I 've grac'd.

But ah! long ere its buds shall disclose,
Those chaste beauties for which they're carest;
I shall droop like an over-charg'd arose,
And sink on my Leontine's breast.

ON POLITENESS.

Supplied the state of the state of the

Agreedy near your according their Ages

But halle at tope to proved ...

THERE is a varnish, which the world lays on,
(For deep scholastic learning gives it not)
And calls Politeness. In good sooth 'tis pleasing,
And sweetly notes the finish'd gentleman.
Yet should you ask me its intrinsic worth,
I should be pos'd; since every virtue makes
The heart its seat, and gay Politeness plays,
Like vapour, o'er the finish'd form.

'Tis what the courtier, by much aping, spoiles;
'Tis what the gownsum mimics oft in vain;
'Tis what the lover to his mistress pays
For solid truth, what the imains despise;
Wisdom admires it, but adores it not;
It charms by sa shood, and with soitness wounds;
An intimate with Vice, yet often seen
In Virtue's train, but no essential there.

VERSES

or investment to distribute the break to

facing sa'l alread a group a book and I'd

WRITTEN BY A YOUNG LADY OF FIFTEEN,

On putting a Butterfly out at her Window, after having been in her Room all Winter.

Go! happy infect! fly thy way,
And frolick all the live-long day,
Wyhere'er thy fancy please;
The tender form no blasts needs fear;
Soon will the summer smiles appear—
Then fly and take there ease.

The damask rose-bud soon will blush;
Already hear you warbling thrush
Tune his sweet note to love:
Then, happy creature, haste away,
The spring invites--no longer stay;
But haste its joys to prove.

Go! on the lilly's bosom play,
Which soon will welcome in the May;
Soon charm the gazing sight:
Till then the violet beds frequent,
Where odor of the sweeten scent
Will yield thee pure delight.

Oft may I meet thee in the grove,

And fee thee wanton—fee thee rove;

Blest Liberty enjoy:

Young Lehman, though equally imprudent as his brother, was, however, not so unfortunate. He had nothing more at heart than to hasten to Vienna, to inform the Princess of her husband's happy escape, and, perhaps, he would have reminded her of the reward which he expected for that service, but the affair was already known at court, so that he was under the necessity of seeking safety by a precipitate slight, in which he was generously assisted by the Princess.

This Prince, whose goods were consisted, and on whose head a price was set by the Emperor, sound means afterwards of being amply revenged, by heading the Hungarian malcontents. "If you find any one," said he, more worthy of commanding you, I am ready to serve under him, and in whatever station you may place me, I shall always think myself happy to fight for your liber.

"ties, and to die with my arms in my hand while I am discharging this duty."

countries, and a force

Two months after, he took the fort of Katto, and put to the fword all the Imperialists who had not given quarter to the Hungarians. After having combated with equal success and glory, the states of Hungary declared him protector of the kingdom until they should elect a new king. In 1713, when the Hungarians made a treaty of peace with the Emperor, Prince Ragotski went to France, and thence to Constantinople, where he afterwards resided, esteemed by the Otoman court, and beloved by his acquaintances, and by all those who knew how to appreciate his great qualities. He died there on the 8th of April, 1725, at about the age of sifty six.

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heart in garven has severed more and anything

graditive our trees and figs adoubt and the form of the

POETRY.

LEONTINE'S TOMB.

Pass'd by the wide-spreading oak.
Around which the fondivy had clung;
I beheld--Oh! the heart-piercing stroke!
Where my Leontine formerly sung.

Its dew-drops the morn had just shed,
Enriching each branch of the tree?

And I could not but think they were spread,
As kind tokens of forrow for me.

I pass'd by the smooth sowing stream,
That so silently once deck'd the vale;
And it seem'd (but perhaps 'twas a dream)
With sad murmurs to burthen the gale.

I pass'd by the jessamine bow'r,
Where love tun'd my Leontine's tongue;
And I search'd but descern'd not a slow'r,
Where erst in profusion they hung.

I pass'd by the neatly-thatcht cot,
Which was wont to excite the foft blush;
I could not but sigh at my lot,
And indulge in the forrowing gush.

Empress, had not been able to banish gallantry. All beheld the Princess of Ragotski, rather as the wife of an unfortunate man than of a crimnal. Having had the address to gain over to her interest even the Monks, she was enabled, by their means, to procure some information respecting her husband, and to acquaint him of her fituation. She discovered also by their affistance, that the officer entrusted with the care of guarding him was a foldier of fortune named Lehman, a man devoted to pleasure, and who either from disposition, or to banish the gloom of the prison in which he was as it were shut up, had converted the castle of Neustadt, where he commanded, into a kind of feraglio. The Princess of Ragotski, informed of this particular, immediately concluded, that a man of Captain Lehman's temper would not be displeased with her portrait; she therefore caused one to be painted, and sent it to him in a box fet with diamonds. This prefent was received with the liveliest gaatitude, and the desire of seeing a Princess whom he found so beautiful, contributed not a little to make him grant the first favor she asked, which was permission to pass one night with her husband. With the confent of the Governor, who promised the most inviolable fecrecy, the Princels requested leave from the Empress to go and discharge a vow at Mariendal, a place of pilgrimage then much in vogue, twelve leagues from Vienna, and very near Neustadt.

When she arrived at Mariendal, she found there one of Captain Lehman's friends, together with his brother, who procured her the complete dress of a peasant, by means of which she was introduced into the castle, without any danger of being detected, but not however without being exposed to the raillery of the centinels, who were accustomed to pass their jokes upon those who paid such visits

to the Governor.

The Princels, after having given the Governor ever tefflimony of her gratitude, inspired him with hopes the most calculated to seduce him, in case he could, without injuring his honor, facilitate her husband's escape. This temptation was too powerful to be resisted, and the Governor agreed to the proposal, provided his brother could be prevailed on to undertake the management of the whole affair.

The brother, who was younger and still more presump-

tuous, charmed with the Princess' proposal, which lest room for the most flattering hopes, required very little entreaty to induce him to promise that he would serve her, were it even at the hazard of his life. He therefore conducted her back next morning to Mariendal, where she resumed her usual dress and proceeded thence to Vienna,

very much fatisfied with her pilgrimage.

When matters were thus concerted, the Princess lost no time in making every preparation to secure her husband's flight. She provided horses to be ready for him on the roads where he was to pass, and having, under various pretences, engaged boats necessary to cross the different armes of the Danube which form the island of Schut, and in such a manner that no delay or impediment might arise, the young man repaired to Neustadt, as if with an intention of taking leave of his brother before he joined his regiment.

As foon as he arrived at Neustadt, he made his portmanteau and the dress of a groom, in which the Prince was to disguise himself, to be carried into the Governor's apartment. The door of the prisoner's chamber was at the end of a long gallery, contiguous to that of Captain Lehman, and orders were given that it should be always left open, in order that the centinel who was posted there,

might fee every thing that paffed.

Towards the evening of the day appointed for the Prince's escape, at the moment when the castle was lighted, the Captain appeared at the door with a candle in his hand, which he gave to the centinal to light at the other end of the gallery. The Prince who was prepared, embraced that opportunity, glided into the Captain's apartment, put on the groom's dress, took up the portmanteau of young Lehman upon his shoulders, and preceded by this officer, who was not suspected by the garrison, got out of the castle without being known, and having traversed all Hungary, arrived safe in Poland.

He regretted, however, that he could not prevail upon the Governor to follow him. This man, from motives of avarice, having put off his flight till the next morning, was discovered, arrested by his own soldiers, and a few

The brother, who was younger and this more prefix

days after put to death.

color of their mother, but in proportion as they advance in age

and fize, they become browner.',

"These quadrupedes feed upon the leaves of trees, and particularly on those of a mimosa, peculiar to the canton which they inhabit; meadow grass forms also part of their aliment, but they are not under the necessity of kneeling down to browse or to drink, as some have improperly believed.

"They often lie down down to ruminate or to fleep, which causes a confiderable callofity on the sternum, and makes their

knees to be always covered with a hard fkin."

"Had Nature endowed the Giraffe with an irafcible disposition, it certainly would have had cause to complain: for the means with which it is provided either for attack or defence are very trifling. It is indeed a peaceful and timid animal; it shuns danger, and slies from it, trotting along very fast: a good horse

can with difficulty overtake it."

"It is faid that it has not strength to defend itself, but I know beyond a doubt, that by its kicking it often tires out, discourages, and drives away the lion. Except upon one occasion, I never faw it make use of its horns; they may be considered as of no utility, were it possible to doubt of the wisdom and precaution employed by Nature, the motives of which we are not always able to comprehend."

The dimensions of this animal, were taken from the stuffed skin of one shot by Lieutenant Paterson, in his travels into the interior parts of Africa. This skin is now in the possession

of John Hunter, Esq. Leicester-square.

The height of this camelopard, in its natural position, taken

from the hoof to the top of the horns, was

	Feet Inches
Managarina hards for call and managar, petrocal and total	14 9
Ditto from the hoof to the shoulder -	9 71-2
Length of the lore legs —	5 7
Ditto of the hind legs -	5 6 1-2
Ditto of the body from the shoulder to the rump	5 9
Ditto of the neck —	
Ditto of the tail without hair -	4 . 101-2
Ditto of the horns	
Distance between ditto	0 3
Length of the hair of the mane, from three to	s tour inches,
and of a reddish color Mr. Patterson adds, "	
" chiefly subfift upon the mimofa and wild apricot	s. Their co-

"lor is in general reddish, or dark brown and white; they are cloven footed; have four teats; their tail resembles that of a bullock, but the hair of the tail is much stronger, and in general black: they have eight four teeth below, but none above; and six grinders, or double teeth, on each side, a-bove and below; the tongue is rather pointed and rough: they have no footlock hoofs; they are not swift,* but can continue a long chace before they stop; which may be the reason that sew of them are shot,—It is difficult to distinguish them at any distance, from the length of their body, which together with the length of their neck, gives them the appearance of a decayed tree."

ANECDOTE CONCERNING RAGOTSKI PRINCE OF

of the state of th

TRANSYLVANIA.

similar has another a plobagated in the wave a second and sout on

HIS Prince was imprisoned in the castle of Neusladt in 1701, as accused of having attempted to stir up the Hungarians against the Emperor, and was in great danger of never getting out, but to be conducted to the scaffold.

The Princess, his spouse, whom he loved tenderly, and who was equally fond of her husband, exerted all her influence with the Empress, to whom she was related, in order to put off his trial, hoping that in the mean time she might find some method of procuring him his liberty. She was young, beautiful, and well made, equally intriguing as lively, and acquainted with the art of pleasing. Possessed of these qualities, she could not fail of having many partizans and friends, even in a court from which the austere character of the Emperor, and the zeal of the

^{*} In this Mr. Paterson's account seems to disagree with that of Mr.

Mr. Vaillant, who has lately published an account of his travels into the interior parts of Africa, speaking of the Girasse, says, sif among the known quadrupedes, precedency be granted to height, the Girasse without doubt, must hold the first rank. A male, which I have in my cabinet, measured after I killed it, sixteen feet four inches from the hoof to the extremity of its horns. I use this expression to make myself be understood, for the Girasse has no real horns, but between its two ears, at the upper extremity of the head, arise in a perpendicular and parallel direction, two excrescences from the cranium which, without any joining, stretch to the height of eight or nine inches, terminating in a convex knob, and are surrounded by a row of strong straight hair, which overtops them by several lines."

"The female is generally lower than the male. One I killed was only thirteen feet fix inches in height, and her incifive teeth, which were almost all worn away, incontestibly

proved that she had attained to the full growth.',

"In consequence of the number of these animals which I have killed, and had an opportunity of seeing, I may establish as a certain rule, that the males are generally fifteen or sixteen seet

in height, and the females from thirteen to fourteen."

"Whoevever should judge of the thickness and strength of these animals from the above dimensions would be greatly deceived; I may almost say, that they consist of nothing but neck and legs. The eye indeed that is accustomed to the long and full figures of the quadrupedes of Europe, finds no proportion between a height of sixteen seet, and a length of seven, taken from the tail to the breast. Another deformity, if it may be called one, makes us contrast the parts before and those behind. The former have a considerable thickness towards the shoulders, but the latter are so thin and meagre, that they do not seem formed the one for the other."

"Naturalists and travellers, who speak of the Giraffe, all agree in making the hind legs only half the length of those before; but did those who say so, really see the animal, or if they saw it,

did they confider it attentively ?"

"An Italian author, who certainly never faw it caused a figure of it to be engraved at Venice, in a work entitled Descrizioni degli Animali, 1771. This figure is exactly formed from the descriptions which had been then published of the animal; but this exactness renders it so ridiculous, that we must consider it, on the part of the Italian author, as a severe criticism on all the accounts which had appeared, and which have been so often repeated."

"Of all authors, not of a modern date, who have spoken of this animal, the most exact is Gillius, who says expressly, that "the Giraffe has its four legs of the same length, but that "the fore thighs are so long, in comparison with those behind, "that the back of the animal appears inclined like the roof of a "house." If by the fore thighs Gillius means the omoplate, or shoulderblade, his affertion is just, and I fully agree with him."

"The account given by Heliodorus, is far from being so correct. If we believe that he speaks of a Girasse, when he says, " its head is only double the size of that of the ostrich," we must conclude, that things have changed much since, and that in the lapse of time Nature has made either the one or the other of these animals suffer great variations."

"The horns forming a part of the cranium, as I have already faid, can never fall off. They are not folid, like those of the stag, nor composed of any substance analogous to the horns of an ox, much less do they consist of hair united, as Busson supposes. They are simply of a boney calcareous substance, divided by a multitude of small pores, like all bones, and are covered thoughout their whole length with short coarse hair, which has no resemblance to the soft down that covers the young horns of roe-bucks or stags."

Volumer, are in general defective; they have made the horns terminate in a point, which is contrary to the truth. Instead of bringing the mane only to the shoulders, they have prolonged it to the root of the tail; a mistake, which, added to many others disgraces and renders of no utility to science these false representations, in which people very improperly conside on account of the reputation of the authors who avow them."

"The Giraffes, both male and female, are spotted in the same manner; but without paying attention to inequality of size, they may easily be distinguished from each other even at a distance. The male, on a greyish white ground, has large spots of a dark brown colour, almost approaching to black; and the semale, on a like ground, has spots of a tawney color, which render her less striking. The young males are at first of the

Mr. Vaillant, who has lately published an account of his travels into the interior parts of Africa, speaking of the Girasse, says, "if among the known quadrupedes, precedency be granted to height, the Girasse without doubt, must hold the first rank. A male, which I have in my cabinet, measured after I killed it, sixteen feet sour inches from the hoof to the extremity of its horns. I use this expression to make myself be understood, for the Girasse has no real horns, but between its two ears, at the upper extremity of the head, arise in a perpendicular and parallel direction, two excrescences from the cranium which, without any joining, stretch to the height of eight or nine inches, terminating in a convex knob, and are surrounded by a row of strong straight hair, which overtops them by several lines."

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proved that she had attained to the full growth.',

"In consequence of the number of these animals which I have killed, and had an opportunity of seeing, I may establish as a certain rule, that the males are generally sisteen or sixteen seet

in height, and the females from thirteen to fourteen."

"Whoevever should judge of the thickness and strength of these animals from the above dimensions would be greatly deceived; I may almost say, that they consist of nothing but neck and legs. The eye indeed that is accustomed to the long and sull sigures of the quadrupedes of Europe, finds no proportion between a height of sixteen seet, and a length of seven, taken from the tail to the breast. Another deformity, if it may be called one, makes us contrast the parts before and those behind. The former have a considerable thickness towards the shoulders, but the latter are so thin and meagre, that they do not seem formed the one for the other."

"Naturalists and travellers, who speak of the Girasse, all agree in making the hind legs only half the length of those before; but did those who say so, really see the animal, or if they saw it,

did they confider it attentively?"

"An Italian author, who certainly never faw it caused a figure of it to be engraved at Venice, in a work entitled Descrizioni degli Animali, 1771. This figure is exactly formed from the descriptions which had been then published of the animal; but this exactness renders it so ridiculous, that we must consider it, on the part of the Italian author, as a severe criticism on all the accounts which had appeared, and which have been so often repeated."

"Of all authors, not of modern date, who have spoken of this animal, the most exact is Gillius, who says expressly, that "the Giraffe has its four legs of the same length, but that "the fore thighs are so long, in comparison with those behind, "that the back of the animal appears inclined like the roof of a "house." If by the fore thighs Gillius means the omoplate, or shoulderblade, his affertion is just, and I fully agree with him."

, The account given by Heliodorus, is far from being so correct. If we believe that he speaks of a Girasse, when he says, " its head is only double the size of that of the ostrich," we must conclude, that things have changed much since, and that in the lapse of time Nature has made either the one or the other of these animals suffer great variations."

"The horns forming a part of the cranium, as I have already faid, can never fall off. They are not folid, like those of the stag, nor composed of any substance analogous to the horns of an ox, much less do they consist of hair united, as Busson supposes. They are simply of a boney calcareous substance, divided by a multitude of small pores, like all bones, and are covered thoughout their whole length with short coarse hair, which has no resemblance to the soft down that covers the young horns

"The figures of this animal given in the works of Buffon and Vosmar, are in general defective; they have made the horns terminate in a point, which is contrary to the truth. Instead of bringing the mane only to the shoulders, they have prolonged it to the root of the tail; a mistake, which, added to many others disgraces and renders of no utility to science these false representations, in which people very improperly conside on account of the reputation of the authors who avow them."

"The Giraffes, both male and female, are spotted in the same manner; but without paying attention to inequality of size, they may easily be distinguished from each other even at a distance. The male, on a greyish white ground, has large spots of a dark brown colour, almost approaching to black; and the semale, on a like ground, has spots of a tawney color, which render her less striking. The young males are at sirst of the

which are left. I have feen very large fish live feveral years, though deprived of the half of their bodies, that is to fay, of that

part which extends from the anus to the tail.

The wings of birds have been compared to the fins of fish, and the feathers to the cartilages of the latter; but there is a very great difference in respect to the manner in which they are reproduced; we know that the feathers never grow up after they have been cut.

In almost all sish, the cartilages of the sins and tail are very strong and numerous. If we compare the number of these bony substances with that of the bones of the paws of a salamander, we shall find that it is much superior. There is, indeed, a very great difference between these organs, especially respecting the manner in which the different hard parts are connected with one another.

If the membrane which forms the fins has been torn, according to the direction of the cartilages, the two parts will unite, and form a kind of future, which disappears by degrees. Fishes are often found which have several of these futures in their fins,

especially in these of the back.

This regenerating faculty of the fins is so much the more useful to fishes, as these parts are continually exposed to be torn or cut either by different bodies being dashed against them, or by the teeth of animals. Their increase, however, appeared to me to be always very flow, but there is every reason to believe that it is much quicker in those fish which are in a state of liberty.

My intention, in these sew observations, has been to present a fact, which, in my opinion, may be of some use to physiology, and to offer a new proof of the multiplicity of the resources of nature, when it may be necessary to restore to organist d bodies that original state of persection which they have been deprived of by

fecondary causes.

ACCOUNT OF THE CAMELOPARDALIS, OR GIRAFFE.

IVI A N Y and various accounts have been given of this fingular and curious animal; but notwithstanding all that has been said upon the subject, no just or precise idea has been formed till lately of its configuration, and still less has been known of its manners, character, and organization.

As the countries where this animal is found were unknown to the Greeks, Aristotle has made no mention of it. Pliny, however, speaks of it, and Oppian describes it, in a manner which is by no means ambiguous. Some account of it is given also by Heliodorus and Strabo. " The Æthiopian ambassadors," fays the former, "brought an animal of the fize of a camel, " the skin of of which, was marked with lively spots " and brilliant colours, and its posterior parts were much " lower than the anterior. The neck, though joined to apret-" ty large body, was thin; the head, in figure, refembled that " of a camel, and in fize was not twice as large as that of the " oftrich. The eyes appeared to be tinged with different co-" lours. The gait of this animal was different from that of all " other quadrupedes, which in walking lift their feet diagonally; " that is, the right fore foot with the left hind foot. It was a " gentle creature, and might be conducted at pleasure by a small " cord put round its neck." Strabo describes it in the following words. " In Æthiopia there is a large animal, called the " Camelopardalis, though it has no refemblance to the pan-" ther, for its skin is not spotted in the same manner. " foots of the panther are circular, and those of the camelopard. " refemble the spots of the fawn or young stag. The hinder " parts of the body are much lower than those before, so that at the rump it is not much higher than an ox, and at the fnoul-"ders it is higher than a camel. From this disproportion of parts, " its motions must not be quick. It is a mild animal, does no " mischief, and feeds upon herbs and leaves."†

Belon, Gillius, Gesner, Hasselquist, and several other authors, have mentioned the camelopard; but their descriptions of it are far from being accurate or fatisfactory, and that e-

ven of the celebrated Buffon is imperfect.

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* Heliodorus, Lib. X.

† Strabo, Lib. XVI. et XVII.

John Leo, in his Description of Africa, speaking of this animal. fays, the Giraffe is so wild an animal, that it is rarely seen, for it hides itself in the thick woods and forests, where there are no other animals, and when it sees a man, betakes itself to flight, though it is very far from being swift footed. In its head it resembles a camel; in its ears an ox; and in its feet a stag. Few of this species are ever caught by hunters, but fuch as are young, and exceedingly small. Johan. Leoni Descrip. Africa, p. 745, Ed. Elz.

animals of two different orders. Some, such as cray-sish, have their skeleton on the outside, that is to say, their soft parts are covered with a hard substance. In others, on the contrary, such as the lizard, the salamander, &c. the skeleton is in the inside, that is to say, the bony part is covered by the parts that are soft.

It is well known that cray-fish, the parts of which are joined to the body by very delicate articulations, are liable to lose them, but that new ones grow up at the end of some weeks.

The reproduction of the paws of falamanders has been traced with the greatest minuteness, by two of the most distinguished observes of the present age, Mr. Bonnet of Geneva, and Mr Spallanzani. We are indebted to these gentlemen for a number of discoveries in one of the most curious points of physiology. The regeneration, however, of articulate parts, has not been much examined in sishes, a kind of animals very disferent from those which have been already observed, and of which the blood is never above two or three degrees warmer than the element they inhabit.

I have cut certain portions from the fins of different fishes, and having repeated this experiment at various epochs, I have always found that these parts reproduced themselves nearly. It appeared to me, that they grow up quicker in fishes that are

young, and in fome species rather than in others.

Having cut away part of the fins of some gold fish, I observed the third day on the edge which had been cut, a kind of whitish excrescence; on the eighth this excrescence was sensibly extended, and it soon became a membrane, which at first was only a line in breadth. This membrane was thicker than that which formed the bottom part of the fin, but in proportion, as it extended itself, it became thinner, and transparent. At the end of three months I could distinguish the formation of the bony ribs, destined to support this membrane. They appeared to be a continuation of the gristles of base. They at first seemed to be of a substance like jelly.

Having cut the right fin of the breast of a gold fish, in the space of eight months that part became as large as the left, which I had not touched. I repeated this operation on the fins of the belly, and the result was always the same. It is true that although the new fins were as large as the old, they remained some time white, and less transparent than the rest.

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I made oblique sections transversely, and, in a word, in every direction, in the tail fin of different sishes, and the parts cut always regenerated at the end of a certain time. Fishes subjected to these experiments lost their equilibrium, and their progressive faculty became less in proportion as I cut their sins. They never recovered their natural position until these parts were renewed.

From some fishes I cut off the fins as near to the body as possible; these animals were then unable to keep themselves horizontally in the water. Their heads inclined to the bottom of the vessel; they wavered, and could not, but with great exertion, resume an horizontal position. Their fins grew up very slowly.

The same experiments having been repeated on several sishes, I always observed the same effects. In a carp, which had the edges of its sins gnawed by small sishes, in such a manner, that they appeared to be fringed, I perceived, at the end of some months, that the edges were become perfectly smooth.

I remarked that the fins were renewed generally fooner or later, according as they were more or less useful to the animal. Mr. Spallanzani made a similar observation on earth worms, the heads of which were constantly reproduced sooner than the posterior part of the body; in the like manner, in sishes, the tail sin, the most useful of all, since it enables them to execute almost all their motions, was always formed sooner than those of the belly or the breast; and those which are destined to support the sish at an equal height, and to aid it in its lateral motions, were renewed much sooner than those of the back, in which I could scarcely distinguish the new cartilages seven months after they had been cut.

The membrane which formed the first rudiments of the fin, had different degrees of thickness, according to the different kinds of sishes. It was composed of two leaves, between which were the gristles, composed sometimes of one piece, hard and sharp, but more frequently of several bony parts, closely united by a cartilaginous substance. That the fins may be reproduced, part of the cartilages must be left. If this part be entirely destroyed, new fins will not grow up in the room of the old ones. This I have often observed in several sishes, the dorsal fins of which, with part of the back, had been taken away, and in the room of which there was formed a plain suture.

Though fish cannot well dispense with these organs, they are able in some measure to supply what is wanting by those

down in the very middle of all the streets, about twenty paces distance, and twenty feet high. They are made of a square of glass about two feet deep, covered with a broad plate of iron; and the rope that lets them down is secured and locked up in an iron funnel, and a little trunk sastened in the wall of the house. These lanthorns have candles of four in the pound in them, which hast burning till after midnight.

As to these lights, if any man break them, he is forthwith sent to the gallies; and there were three young gentlemen of good families, who were in prison for having done it in a frolic, and could not be released thence in some months; and that not with-

out the diligent application of good friends at court.

The lights at Paris, for five months in the year only, costs 50,000l. Sterling. This way of lighting the streets is in use also in some other cities in France. The king is said to have raised a large tax by it. In the preface to the tax it is said, That considering the great danger his subjects were in, in walking the streets in the dark, from this wes, and the breaking their necks by salls, he for such a sum of money did grant this privilege, that they might hang out lanthorns in this manner.

It is to be observed, that the avenues to the city, and all the streets, are paved with a very hard sandstone, about eight inches square, so they have a great care to keep them clean: in winter, for example, upon the inelting of the ice, by a heavy drag with a horse, which makes a quick riddance, and cleaning the gutters; so that in a day's time all parts of the town are to so admirating

on clean and neat again to walk on.

I could heartily wish their summer-cleanliness was as great; it is certainly as necessary to keep so populous a city sweet; but I know no machine sufficient, but what would empty it of the people too: all the threats and inscriptions upon walls are to little purpose. The dust in London, in summer, is oftentimes, if a wind blow, very troublesome, if not intolerable: in Paris there is much less of it, and the reason is, the flat stones require little sand to set them fast; whereas our small pebbles, not coming together, require a vast quantity to lay them fast in paving.

MEMOIR ON THE REGENERATION OF CERTAIN

PARTS OF THE BODIES OF FISHES.

BY MR. BROUSSONET.

N certain classes of enimals we observe some parts susceptible of motion, which reproduce themselves after they have been destroyed; but this reproductive power is much less sensible in animated beings, the organization of which is more perfect, than in those the organization of which being less complicated,

feems rather to approach that of vegetables.

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Among all the experiments which have been made to prove the possibility of the regeneration of different parts of the same animal, there are force, without doubt, which we are warranted to distrust; and it has happened more than once, perhaps, that when we have imagined that we d vided the same individual into diffinct portions, we divided only a habitation common to feveral, which remaining entire in each portion, have renewed their habitation. Numerous observations, however, leave us in no doubt respecting the reproduction of certain organs in marine animals, in earth-worms, in faails and in a great number of other species of the same families. The parts even which we confider as effectial to life, fuch as the head, grow up on those animals after having been cut off. This phenomenon appears very furprifing on the first view, because numerous examples have taught us to confider that organ as abfolutely necellary to the existence of animals, though experience teaches us that it is less essential in proportion as their organization is less perfect. The tortoise, the different parts of which, in their fructure, exhibit less perfection than those of animals the blood of which is warm, lives almost two months after its head has been cut off.

The parts which present examples of this kind of regeneration are in the greater part of animals foft, of a homogeneous substance, and al nost like that of the rest of the body. They reproduce themselves almost as the nails, horns, &c. in animals which have warm blood; a circumstance which ought to make us confider as fomething extraordinary, the new formation of parts composed of substances hard and fost, and formed of seve-

ral articulations.

This regeneration of articulate parts has been observed in

velvet cushion to church is such another business. The place of

a lawyer is valued a third part dearer from this.

Here are also daily to be seen in the streets great variety of monks, in strange unusual habits to us Englishmen: these make an odd sigure, and surnish well a picture. I cannot but pity the mistaken zeal of the poor men, that put themselves into religion, as they call it, and renounce the world, and give themselves most severe rules of living and diet. Some of the orders are decently enough cloathed, as the Jesuits, the Fathers of the Oratory, &c.: but most are very particular and obselete in their dress, as being the rustic habit of old times, without linen, or

ornaments of the present age.

As to their meager diet, it is much against nature, and the improved det of mankind. The Mofaic law provided much better for Jews, a chosen people; that was instituted for cleanliness and health. Now for the Christian law, though it command humility and patience under fufferings, and mortification and abilinence from finful lufts and pleasure; yet by no means a diftine food, but liberty to eat any thing whatfoever, much lefs nastiness; and the papists themselves in other things are of this mind, for their churches are clean, pompoufly adorned and perfumed. It is enough, if we chance to fuffer perfecution, to endure it with patience, and all the miserable circumstances that attend it; but wantonly to perfecute ourselves, is to do violence to Christianity, and to put ourselves in a worse state than the Jews were; for to chuse the worst fort of food, which is four herbs and fish, and fuch like trash; and to lie worse, always rough, in coarle and nafty woolle frocks upon boards; to go bare-foot in a cold country, to deny themselves the comforts of this life, and the conversation of men; this, I say, is to hazard our healths, to renounce the greatest blessings of this life, and in a manner to destroy ourselves.

The great multitude of poor wretches in all parts of this city is such, that a man in a coach, a foot, or in the shop, is not able to do any business for numbers and importunities of beggars; and to hear their miseries is very lamentable: and if you give to one, you immediately bring a whole swarm upon you. These I say, are true monks, if you will, of God Almighty's making, offering you t cirprayers for a farthing, that find the evil of the day sufficient for the day, and that the miseries of this life are not to be courted, or made a mock of. These worship, much again their will, all rich men, and make saints of the rest of

x. ankind for a morfel of bread.

But let these men alone with their mistaken zeal: it is certainly God's good providence which orders all things in this world. And the stessheaters will ever defend themselves, if not beat the Lenten men; good and wholesome food, and plenty of it, gives men naturally great courage. Again, a nation will sconer be peopled by the free marriage of all forts of people, than by the additional stealth of a few starved monks, supposing them at any time to break their vow. This limiting of marriage to a certain people only, is a destruction and an abatement of mankind, not less in a papist country, than a constant war. Again this lessens also the number of God's worshippers, instead of multiplying them as the stars in the simmament, or the sand upon the sea shore: these men wilfully cut off their posterity, and reduce God's congregation for the suture.

There is very little noise in this city of public cries of things to be fold, or any disturbance from pamphlets or hawkers. One thing I wondered at, that I heard of nothing lost, nor any public advertisements, till I was shewed printed papers upon the corners of streets; wherein were in great letters, Un, Dis Cinq, Dix. Jusq; a Cinquante Louises a ganger; this is from one to fifty I ouise to to be got; and then underneath an account of what was lost. This sure is a good and quiet way; for by this means, without noise you often find your goods again; every body that has found them, repairing in a day or two to such place. The Gazettes come out but once a week, and but sew people buy them.

It is difficult and dangerous to vend a libel here. While we were in town, a certain person gave a bundle of them to a blind beggar, of the hospital of the Quincevint, telling him he might get sive pence for every penny. He went to N stre Dame and cried them up in the service-time, La vic & Mi acles de l' Eveq; de Reims. This was a trick that was played the Archbishop, as it was thought by the Jesnits, with whom he has had a great contest about Molinas, the Spanish of suit's D Etrice. The libel went off at any rate when the first buyers had read the title furt er, and found they were against the present Archabishop, dake and first peer of France.

The streets are lighted alike all the winter long, as well when the moon shines, as at other times of the mooth; which I remember the rather, because of the impertinent usage of our people at London, to take away the lights for half the month, as though the moon was certain to shine and light the streets and that there could be no cloudy weather in winter. The lanthorns here hang

of no great beauty. They continued as the granite did, for feveral miles along the road, while the opposite side was all of

dead green, supposed serpentine marble.

It was one of the most extraordinary fights I ever faw; these mountains before us had all the appearance, the one of having been sprinkled over with Havannah, the other with Brazil finust. I wondered, that, as the red is nearest the sea, and the ships going down the Abyssinian coast observe this appearance within lat. 26°, writers have not imagined this was called the Red Sea upon that account, rather than for the many weak reasons they have relied u, on. The highest mountain we found upon examination to be composed of serpentine marble; and through about one-third of the thickness ran a large vein of jasper, green, spotted with red. Its exceeding hardness was fuch as not to yield to the blows of a hammer; but the works of old times were more apparent in it than in any mountain we had seen. Ducts or channels for carrying water transverlely, were observed evidently to terminate in this quarry of ajalres, a proof that water was one of the means used in cutting these bard flones.

The porphyry shews itself by a fine purple sand, without any gloss or glitter in it, and is exceedingly pleasant to the eye. It is mixed with the native white sand, and fixed gravel of the plains. Green unvariegated marble is generally seen in the same mountain with the porphyry. When the two veins meet, the marble is for some inches brittle, but t e porphyry of the

fame hardness as in other places.

The granite is covered with fand, and looks like stone of a dirty brown colour; but this is only the change and impression the sun and weather have made upon it; for upon breaking it you see it is grey granite, with black spots, with a reddish cast, or blush over it. This red seems to sade and suffer from the outward air, but upon working or polishing the surface, this colour again appears. It is in greater quantity than the porphyry, and near the Red Sea. Pompey's pillar seems to have been from this quarry.

Next to the granite, but never, as I observed, joined with it in the same mountains, is the red marble. It is covered with sand of the same colour, and looks as if the whole mountain were spread over with brick dust. There is also a red marble with white veins, which I have often seen at Rome, but not in principal subjects; I have also seen it in Britain. The common green, (called serpentine) looks as if covered with Brazil

finiff. Joined with this green, I faw two famples of that beautiful marble they call Ifabella, one of them with a yellowish cast, which we call Quaker-colour; the other with a blueish, which is commonly termed Dove-colour. These two seem to divide the respective mountains with the serpentine. In this green, likewise, it was we saw the vein of jasper, but whether it was absolutely the same with this, which is the bloody jasper, or blood-stone, is what we had not time to settle.

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I should first have made mention of the verde-antico, the dark green with white irregular spots, because it is of the greatest value, and nearest the Nile.

This is produced in the mountains of the plain green or ferpentine, as is the jasper, and is not considerable by the dust or any particular colour upon it.

First, there is a blue sleaty stone, exceedingly even and smooth in the grain, solid, and without sparks or colour. When broken it is some thing lighter than a slate, and more beautiful than most marble; it is like the lava of volcanos, when polished. After lifting this, we come to the beds of verde antico; and here the quarrying is very obvious, for it has been uncovered in patches, not above twenty feet square. Then, in another part the green stone has been removed, and another pit of it wrong it.

Mr Bruce makes a very judicious observation, that from this discovery we need no longer wonder from whence came the immerse quantity of marble used by the ancients.

The following Account of Paris, extracted from an old Work, compared with its present State, will afford our Readers a striking Contrast.

SOME ACCOUNT OF THE CITY OF PARIS
IN 1698. BY DR. LISTER.

AMONGST the living objects to be seen in the streets of Paris, the counsellors and chief officers of the court of justice made a great sigure. They and their wives have their trains carried up; so there are abundance to be seen walking about the streets in this manner. It is for this, that places of that nature sell so well. A man that has a right to qualify a wife with this honour, shall command a fortune; and the carrying a great

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the blind. You may entertain him, keep him company, or fupply him with every comfort, convenience, and amusement of life, which he is capable of enjoying. And thus may you make fome attonement for the injury which you have done unto a man; and by thy affiduity and future tenderness, thou mayest obtain his pardon, and palliate thine own offence. But what is all this to the injured brute ? If by thy passion, or malice, or fportive cruelty, thou hast broken his limbs or deprived him of his eye fight, how wilt thou make amends? Thou canst do nothing to amuse him. He wants not thy money, nor thy cloths. Thy conversation can do him no good. Thou hast obstructed his means of getting sublistence, and thou wilt hardly take upon thyfelf the pains and trouble of procuring it for him (which yet by the rate of justice thou art bound to do;) thou hast marred his little temporary happiness, which was his all to him; thou hast maimed or blinded him for ever, and hast done him an irreparable injury. It admits on the many bandled the most south view of delingualising their childrens, which are been lists from

OF THE FORM GIVEN BY CERTAIN PEOPLE TO THEIR CHILDREN'S HEADS.

The Omaquas, a people of South America, according to P.

Ve gris, prefit the heads of the civilent fo violently between two clanks that they become quite fram at the top, and that

refore said behinds. They fay they do this to give their beade

their who are born indirectly.

THERE are a great number of abfurd practices which may be traced to a very high antiquity. Hippocrates speaks of a very ancient people, who inhabited the borders of the Black Sea, whom he calls M crocephates, or long heads. These people had the strange practice of pressing the head out in length of their new-born children, and among whom this method, repeated from generation to generation, had at length rendered this conformation of the head natural and hereditary.

The greater part of the islanders in the Archipelago, some of the people of Asia, and even some of those of Europe, still press their children's heads out lengthwise. We may observe also that the Epirots, many people of America, &c. are all born with some singularity in the conformation of their heads; either a statuels on the top, two extraordinary protuberances

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behind, or one of each fide, fingularities which we can only regard as an effect of an ancient and strange mode, which at length is become hereditary in the nation. According to the report of many travellers, the operation of compressing the head of a child lengthwife, while it is yet foft, is with a view infenfibly to enlarge the interval between the two eyes, fo that the vifual rays turning more to the right and left, the fight would embrace a much larger portion of the horizon; the advantage of which they are well acquainted with, either in the constant exercise of hunting, or on a thousand other occasions. Ever fince the 16th century, the missionaries established in the countries inhabited by the lavages of America, have endeavoured to destroy this custom, and we find in the sessions of the third council of Lima, held in 1585, a canon which expressly prohibits it. But if it has been repressed one way, the free negroes and Maroons, although Africans, have adopted it, fince they have been established among the Caribs, tolely with the view of diffinguishing their children, which are born free, from those who are born in flavery.

The Omaquas, a people of South America, according to P. Veigh, press the heads of their children so violently between two planks that they become quite sharp at the top, and flat before and behind. They say they do this to give their heads a greater resemblance to the moon.

TO THEIR CHUDREN HEADS

AN ACCOUNT OF THE MARBLE MOUNTAINS IN EGYPT.

be traced to a very high antiquity. Hippocrates facults of a

you divide anothery broads to referent hours or six HHHH.

By Mr. BRUCE.

remotived this confermation of the bred natural and bareds

E saw quantities of small pieces of various sorts of granite, and porphyry, scattered over the plain, which had been carried down by a torrent, probably from quarries of ancient ages: these were white, mixed with black spots; red, with green veins and black spots. After this all the mountains on the right hand were of red marble in prodigious abundance, but

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and barbaroufly ill treat us, because we were not made in their thape; t einjustice and cruelty of their behaviour to us would be felf-evident; and we should naturally infer that whether we walk upon two legs or four; whether our heads are prone or erect; whether we are naked or covered with hair; whet er we have tails or no tails; horns, or no horns; long ears, or round ears; or whether we bray like an afs, fpeak like a man, whiftle like a bird, or are mute as a fish, Nature never intended these diffir ctions as foundations for right of tyranny or oppression. But perhaps it will be faid, it is abfurd to make fuch an inference from a mere supposition, that a man might have been a brute, and a brute might have been a man; for the supposition itself is chimerical, and has no foundation in nature: and all arguments should be drawn from fact, and not from fancy of what might be, or what might not be. To this I reply in few words, and in general, that all cases and arguments, deduced from the important and benevolent precepts of doing to others as we would be die unto, necessarily require such kind of suppositions; that is, they suppose the case to be otherwise than it really is. For instance, a rich man is not a poor man; yet the duty plainly arising from the precepts is this-The man who is now rich, ought to behave to the man who is now poor, in fuch a man ier as the rich man, if he were poor, would be willing that the poor man if he were rich should behave towards him. Here is a cafe, which in fact does not exist between these two men, for the rich man is not a poor man, nor is the poor man a rich man; yet the supposition is necessary to enforce and illustrate the precept, and the reasonableness of it is allowed. And it the fuppolition is reasonable in one case, it is reasonable, at least not contrary to reason, in all cases to which this general precept can extend, and in which the duty enjo ned by it can and ought to be performed. Therefore thoug it te true that a man is not a horse; yet as a horse is a subject within the extent of the precept, that is, he is capable of receiving benefit by it, the duty enjoined in it extends to the man, and amounts to this, - Do you that are a man fo treet your horse, as you would be willing to be treated by your mafter, in cafe that you were a horse. I see no absurdity of fatse reasoning in this precept, nor any ill confequence that would arise from it, however it may be gainfaid by the barbarity of cultom.

In the case of human cruelty * the oppressed man has a tongue that can plead his own cafe, and a finger to point out the agreffor. All men that hear of it shudder with horror; and by applying the cause to themselves, pronounce it cruelty with the common voice of humanity, and unanimously join in demanding the punishment of the offender, and brand him with infamy. But in the case of brutal cruelty, the dumb beast can neither utter his complaints to his own kind, nor describe the author of his wrong; nor, if he could, have they it in their power to redrefs and avenge him.

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In the case of buman cruelty, there are courts and laws of justice in every civilized society, to which the injured man may make his appeal; the affair is canvassed, and punishment inflicted in proportion to the offence. But, alas! with shame for man, and forrow for brute, I ask the question, what laws are now in force, or what court of judicature does now exist, in which the fuffering brute may bring his action against the wanton cruelty of barbarous man? The laws of Triptolemus are long fince buried in oblivion, for Triptolemus was but a heathen. No friend, no advocate, not one is to be found amongst the + bulls nor calves of the people, to prefer an indictment on behalf of the brute. The Priest passeth by on one fide, and the Levite on the other fide; the Samaritan stands still, sheds a tear, but can do no more, for there is none to help; and the poor wretched, unbefriended creature, is left to moan in unregarded forrow, and to fink under the weight of his burden.

But suppose the law promulgated, and the court erected, the judge is feated, the jury fworn, the indicament read, the cause debated, and a verdict found for the plaintiff: yet what cost or damages, what recompence for loss sustained? In actions of humanity, with or without law, fatisfaction may be made. In various ways you make amends to a man for the injuries you have done him. You know his wants, and you may relieve him. You may give him cloths, or food, or money. You, may raife him to a higher station, and make him happier than before you afflicted him. You may be feet to the lame, and eyes to

^{*} This term the author uses to express the cruelty of men unto men, and that of brutal cruelty, to express the cruelty of men unto beafts.

⁺ Gen. ii. 7.

or unmerited pain. A wife man would impeach his own wisdom and be unworthy of the blessings of a good understanding, if he were to infer from thence that he had a rig t to dispise or make game of a fool or put him to any degree of pain. The folly of the fool ought rather to excite his compassion, and demands the wise man's care and attention to one that cannot take care of himself.

It has pleafed God the father of all men, to cover some men with white skins, and others with black skins; but as there is neither merit nor demerit in complexion, the white man (notwithstanding the barbarity of customs and prejudice) can have no right by virtue of his colour, to enflave and tyrannize over a black man; nor has a fair man any right to despise, abuse, and infult a brown man. Nor do I believe a tall man by virtue of his stature, has any legal right to trample a dwarf under his feet. For whether a man is wife or foolish, white or black, fair or brown, tall or fhort, and I might add rich or poor (for it is no more a man's choice to be poor, than it is to be a fool or a dwarf, or a black or twany) fuch he is by God's appointment; and, abstractedly considered, is neither a subject for pride, nor an object for contempt. Now, if amongst men, the difference of the powers of the mind, and of their complexion, stature, and accidents of fortune, do not give to any one man a right to abule, or infult any other man on account of those differences; for the same reason, a man can have no natural right to abuse and torment a beast, merely because a beaft has not the mental powers of a man. For fuch as the man, he is but as God made him; and the very fame is true of the beaft. Neither of them can lay claim to any intrinsic merit, for being fuch as they are; for before they were created, it was impossible that either of them could deserve; and at their creation, their shapes, perfections, or defects, were invariably fixed, and their bounds fet which they cannot pass. And being neither more nor less than God made them, there is no more demerit in a beast being a beast, than there is merit in a man's being a man; that is, there is neither merit nor demerit in either of them.

A brute is an animal no less susceptible of pain than a man. He has similar nerves and organs of sersation; and his cries and groans, in case of violent impressions upon his body, though he cannot utter his complaints by speech or human voice, are as strong indication to us of his sensibility of pain, as the cries

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and groans of a human being, whose language we do not understand. Now as pain is what we are all averse to, our own fenfibility of pain should teach us to commiserate it in others, to alleviate it if possible, but never wantonly or unmeritedly to inflict it. As the difference in the above particulars are no bars to their feelings, so neither does the difference of the shape of a brute from that of a man exempt the brute from feeling; at least we have no grounds to suppose it. But shape or figure is as much the appointment of God, as complexion or stature. And if the difference of complexion or stature does not convey to one man a right to despise and abuse another, the difference of shape between a man and a brute cannot give to a man any right to abuse and torment a brute. For he that made man and man to differ in complexion or stature, made man and brute to differ in shape or figure. And in this case likewise there is neither merit nor demerit; every creature, whether man or brute, bearing that shape which supreme wisdom judged most expedient to answer the end for which the creature was ordained.

With regard to the modification of the mass of matter of which an animal is formed, it is accidental as to the creature itself: I mean, it was not in the power or will of the creature to choole, whether it frould fustain the shape of a brute or of a man; and yet, whether it be of one shape or of the other; or whether it be inhapited by the foul of a brute, or the foul of a man: the fubiliance or matter, of which the creature is composed, would be equally susceptible of feeling. It is solely owing to the good pleafure of God, that we are created men, or animals in the shape of men. For he that, ormed man of the dust of the ground, and breath d into his nofirils the breath of life, that he might become a living foul, and endued with the fense of feeling, could, if he had so pleased, by the same plastic power, have cast the very same dull into the mould of a beast; which being animated by the lifegiving breath of its maker, would have become a living foul * in that form; and in that form would have been as susceptible of pain, as in the form of a man. And if in brutal shape we had been endued with the fame degree of reason and reflection we now enjoy; and other beings in human shape should take upon them to torment, abuse

ANTHORNE THE PART OF THE PROPERTY OF

⁺ Gen. i. 30, in the margin.

Voltaire, though he leaves the matter in the dark, was well; acquainted with the rank and quality of the illustrious prisoner; but even Voltaire, bold as he was in his writings, durst not divulge the fecret, as it would tend to bring in question the right which. Louis the XVth and his successors had to the Crown of France... for if the fact be true, Louis the X1Vth might be considered as

an usurper.

The fecret of the birth of this fon was at first only consided to Cardinal Mazarin, if indeed the Cardinal (which seems not improbable) was not himself the father. On the death of the Queen he was conveyed to the state prison of the Isle of St. Marguerite, and guarded there with all the precaution and respect which Voltaire so particularly describes. It was not, however, a mask of iron, but one of black velvet, with which his sace was covered. This he was obliged to wear, when in the presence of any one besides the Governor, that his rank and birth might not be discovered by the resemblance he bore to the King his brother.

The precautions taken to conceal him were indeed so great as to shew that there was no common interest in preventing a discovery. The unfortunate prisoner was himself sensible of his pretensions, and acquainted with his situation: but he was undoubtedly made to understand, that it was only on condition of his keeping himself unknown, that he was suffered to continue in existence.

Some princes, in such circumstances, would have had so dangerous a rival cut off: but I ouis the XIVth, who, though a despot, was not void of humanity, contented himself with banishing this elder brother to a distant island, and confining him in a strong fortress, situated in a remote corner of his dominions, where, from the measures taken, it seemed impossible that he could ever be heard of or known. Yet to make assurance double sure, after the battle of La Hogue, when the English sleets were riding triumphant in the Channel, he was conveyed from the Isle St. Marguerite to the Bastille.

Cinq. Mars, the Governor, and Louvois, the Minister, were among the few persons in the secret. It is said to have been divulged by Barbesieux, the son of Louvois, to Mademoiselle St.

Quentin, his mistress.

A French writer accounts for the ambiguity or silence of

Voltaire upon this subject, in the following terms:

"He would have had cause to fear for his own life, if he had divulged a mystery which might destroy the title of the Grand

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Monarque to the throne. For the man in the iron mask being the elder brother of Louis t'e XIVth, had a right to the Crown of France, notwithstanding his apparent illegitimacy, which was covered by the rule sollowed in France in all doubtful cases,

Pater est is quem nuptiae demonstrant:
Whence it must follow, that Louis was an usurper, and that his descendents possessed the Crown only by usurpation. That was the truth, which at all times was terrible, which Voltaire did not dare to utter, and which the King strove to wrap up in darkness by every possible means, even the most iniquitous."

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THE RIGHTS OF THE BRUTE CREATION TO

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to thew that there was no common interest in preventing a dif-

covery. The autorougue priloner was handelf tenfole of Prefume there is no man of feeling who has any idea of justice, but would confess upon the principles of reason and common fense, that if he were to be put to unnecessary and unmerited pain by another man, he would do him an act of injustice; and from a fense of the injustice in his own case now that he is the fufferer, he must necessarily infer, that if he were to put another man of feeling to the fame unnecessary and unmerited pain which he now fuffers, the injustice in nimfelf to the other would be exactly the same as the injustice to his tormentor to him. Therefore the man of feeling and justice will not put another man to unmerited pain, because he will not do that to another, which he is unwilling thould be done to limfelf. Nor will he take any advantage of his own fuperiority of strength, or of the accidents of fortune, to abuse them to the oppression of his inferior; because he knows that in the article of feeling all men are equal; and that the difference of strength or station are as much the gifts and dispensations of God, as the difference of understanding, colour, or feature. Superiority of rank or station may give ability to communicate happiness (and seems so intended) but it can give no right to inslict unecessary

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ACCOUNT OF

SHAKSPEARE'S CRAB-TREE.

SHAKSPEARE's bench, and the half-pint mug out of which he used to take very copious draughts of ale at a public-bouse either in Straford-upon-Avon, or the neighbourhood of that town, are well known to all our English Antiquaries, from their having been long in the possession of the late Mr. James West, by whose descendants I have no doubt they are carefully preserved, and will be long transmitted as heir-looms in the samily: but with Shakspeare's CRAB-TREE the Antiquarian

Society probably are not fo well acquainted.

There has been long a tradition in Warwickshire, that one great dramatic bard was a very boon companion; and the fame of two illustrious bands of good fellows, who were distinguished by the denominations of the Topens and the Sippens, is not yetextinct in that country. The Topers, who were the floutest fellows of the two, challenged all England, it is said, to contest with them in deep potations of the good old English beverage; a challenge which Shakspeare and a party of his young rriends at Stratford readily accepted: but going on a Whitfunday to meet them at Bidford, a village about feven miles distant they were much mortified to find that the Topens had that very day (owing to some misunderstanding of the place and time appointed) gone to a neighbouring fair on a similar scheme with that which brought Shakspeare and his friends to Bidford. Being thus disappointed, they were obliged to take up with the Srr-PERS, whom they found at that village, but whom they held in great contempt. On trial, however, the Stratfordians proved fo unequal to the combat, that they were obliged to yeild; and, while they had yet the use of their legs, they set out towards home. Unfortunately, our great Poet's head, and that of one of his friends, not being fo ftrong as that of their companions, they found themselves unable to proceed; and laying themfelves down, they took up their rest for the night under the shelter of a larg wice-spreading crab-tree. When they awoke in the morning, his friend proposed that they should return to the

place of combat: but, being probably weary of his company, he refused. Farewell, therefore, he exclaimed,

Piping Pebworth, dancing Marston, Hunted Hilbro', hungry Grafton, Dodging Exhall, Popish Wicksford, Beggarly Brome, and drunken Bidford!

The rhymes are certainly not so exact as he would have made in his closet; but, as field-measures, they may do well enough; and the epithets are strongly characteris ic of his manner, being peculiarly and happily adapted to the several villages whence the miscellaneous grope of Sippers had resorted to Bidsord.

This celebrated tree is still standing, and is known far and near by the name of Shakspeare's Crab-tree; and the foregoing anecdote was well authenticated by a clergyman, a native of Warwickshire, who died at Stratford, at a great age, above thirty years ago.

of two illustrates bands of good fellows, who were differentiated

THE IRON MASK.

in that country The Topers, who were the flour

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he real challenged all Teneband, it is find, he con-

HE mystery which has enveloped the story of the man with the iron mask, whose long imprisonment Voltaire noticed in his age of Louis the XIVth, is now cleared up to the satisfaction of most people in France.

It feems that he was neither the Count de Vermandois, nor the Duke of Monmouth, nor any of the other Princes or Noblemen whole names have been mentioned; but an elder brother of Louis the X1Vth, by Anne of Austria, confort of Louis XIII.

It appears that he was the fruit of an illicit amour with the Queen; some say with the Duke of Buckingham; but though illegitimate, and certainly not the son of Louis the XIIIth (which no one believes Louis the XIVth himself to have been) he might have raised pretentions to the crown; as being born in wedlock, there was the presumption of legitimacy in his favour, till the contrary was proved.

fures, and that among that, among the ashes and bones of dead bodies, t ey have, at different times, found considerable quantities of gold, silver, copper, and precious stones, as well as the handles of sabres, ancient armour, saddle orunments, bridles, and other house furniture, together with the bones of animals,

and particularly of the elephant. The gameing no and in a

I he court of Russia, informed of these depredations, sent a general officer, with a fufficient body of troops, to open fuch of these tombs as had not been touched, and, in the name of the crown, to feize on what they contained. This officer, having examined these innumerable monuments dispersed throughout this vast defart, concluded that the largest barrow was, without doubt, the burying place of the prince or chief of some ancient nation. After having ordered a large quantity of earth and stones to be carried away, the workmen found three vaults, confiructed of kones very rudely cut. That in which the prince was deposited was in the centre, and larger than the rest; it was eafily diffinguished by a fabre, a lance, a bow, and a quiver filled with arrows, which were placed by his fide. The next vault was close to his feet, and contained his horse, his saddle, his bridle, and his fours. The body of the prince was stretched out on a leaf of gold, that reached from his head to his feet, and was covered with another leaf of gold, equal in fize to the former. It was wrapped up in a rich mantle, tringed with gold, and ornamented with rubies and diamonds. The head, neck, breast, and arms were entirely naked, and without any ornament whatever. The last vault contained the body of a woman, which was distinguished by the ornaments proper to her fex. She was resting against the wall, and had around her neck a gold chain, of feveral links, enriched with rubies, and gold bracelets round her arms. Her head, neck, and breast were naked. The body, covered with a beautiful robe, but not embroidred, was placed between two leaves of fine gold. The four leaves weighed forty pounds. The robes of both the prince and the princess appeared to be still perfect and brilliant; but they crumbled into dust as soon as they were touched. Search was made also in the rest of the tombs; this one, however, was the most remarkable. A great number of curious things was found in them.

The tombs dispersed throughout the neighbourhood of this plain are probably those of the ancient Tartar heroes, who fell in the field of battle; but we are entirely ignorant of the epoch or history of these events. Some Tartars informed Mr. Bell, that this country had been the theatre of several battles, between

Tamerlane and the Kalmouk Tartars, whom this conqueror in

vain attempted to subdue.

To this account we shall add that of Mr. Bell, which is as follows, "About eight or ten days journey from Tomsky there " is a plain, containing the tombs of feveral heroes who have " perished in combat. They may easily be distinguished by " heaps of earth and stones, with which they are covered. It " is not known when, or by whom these battles were fought, in " a country lying fo far towards the north. The Tartars of Ba-" raba informed me, that Tamerlane, or Timyr-Ack-Sack, as "they call him, had in these places fought several times against "the Kalmouks, without being able to fubdue them. Many " people from the neighbouring places go to these tombs every " furnmer, where they dig up the earth, and find gold, filver, "copper, precious stones, the handles of sabres, and various "pieces of armour, as also horse furniture, suddles and bridles, " with the bones of horses and elephants, from which it appears " that when a general, or any other person of distinction died, his arms, his horse, and his equerry, were interred in the same "tomb with him. This custom still prevails among the Kalmouk " and other Tartars, and appears to be very ancient. It is " eafy to judge, from the number of these tombs, that several " thousands of men must have perished on these plains; for "though the inhabitants of the environs have dug there for ma-" my years, they still find new ones. It is true t at those who " fearch for treasures here are often interrupted in their work, " and plundered by the Kalmouks, who cannot fuffer the affies of the dead to be disturbed.

"I have seen several pieces of armour and other curiosities "taken from those tombs, and among others the equestrian figure " of a man, armed cap-a-pie, which was of cast metal, and formed "with great art. I have feen also the figures of some deer, " made of fine gold, which were cleft in the belly, and pier-" ced with feveral holes. These, perhaps, were used for orna-

" menting quivers and horfe furniture.

"Whilft I was at Tomsky, one of the people who had been " employed in fearching these tombs told me, that he once dif-"covered an arched chamber, in which he found the skeleton " of a man, lying upon a filver table, with his bow, arrows, " and lance placed by his fide; that the skeleton crumbled to " dust as foon as it was touched, but that the table and the arms were worth a confiderable fum."

drawn by the merchants out of a golden or filver bason. This being sinished, the whole amount of each lot is reckoned up according to a table of the current prices lying before them, and a proper deduction at the same time is made for defects; in one beast, perhaps, a nail, of which when the number is complete there are eighteen, being wanting on the foot; another having a cleft or ragged ear; another again a short and

flumpy tail, &c. to told another contract forms born has been

Ju the course of these transactions, the Secretary and his Clerks never meet with the least contradiction of opposition of any kind from the merchants, as these former are known to be thoroughly acquainted with the current prices and the customary abatements. I his business being finished, and the respective funs of money, which have been previously paid into the Company's coffers, being counted over, the Governor, by way of conferring a particular honour on the merchants, after having fprinkled them with rofe-water from a golden font, prefents each of them with a nolegay with his own hand; and orders his porter, who is a native of the country, to rub them with powder of fanders-wood. In return, and by way of the wing their deep fense of the honour done them, the merchants make each of them a low bow: and in this manner the fair is finished. In some years above a hundred elephants have been sold at once; by which the Company has been a great gainer: for one of these animals, that is twelve feet high and has no blemille, and at the same time has two tusks of an equal size, will fetch above two thousand dollars.

The decoy elep ants are never fold; and throughout the whole island, none are used for this purpose but such as are ble-missed. The natives of the country never buy any elephants, as they cannot make use of them. And the purchasers of them come from other countries, where these animals can be of more service. One of the uses to wich they are put, is to keep up the state and pump of the nobility, who have always one or two of them standing before their palaces. These yeomen of the guards are generally clad in a costly covering of tap-stry; and their tusks are tipped with gold or silver, set round with jewels.

They are likewise used for the purposes of war, by the inland princes, in which case they are generally brought into the field coupled together, and having chains fastened to their trunks. The Indians are wont with this view to make them furious,

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and almost mad with a drink prepared from amfium, so that they are afraid of nothing that can possibly be opposed to them : and they have this advantage, that neither darts, nor even but lets from finall arms, have the power to wound them. This animal is likewife made use of as the public executioner; and it must be owned, that he performs this office to perfection, when he is properly educated for it. He usually executes his commission by taking the criminal (supposing this latter to be condemned to death) up with his probofcis, and throwing him up in the air, in which case he catches him on the point of his tusks, and thus makes an end of him. But if the malefactor is not decreed to fuffer torture, he then lays him down on the ground, and with one of his fore-feet treads him to pieces at one finash. When the sentence does not amount to death, bethen takes the criminal, and toffing him up in the air, gives him a fair fall without interpoling any farther: in this case the poor delinquent fometimes gets off fafe and found; but it is an equal chance if he is not a cripple for life. This animal is likewife used for labour. He is made to drag the heaviest pieces of timber fastened to one of his hind-legs: and, in general, to carry on his back all kinds of heavy burthens. day a getter a day media to done

He is also frequently made use of for riding. I have myself made some trials of him in this way; but cannot say that I experienced any pleasure in it, as by his sideling way of going he jolts one excessively."

In forme years showers hanned selected have been solded

once; by which the Company has been a great genuss; for one of these attimals, it will be two dealths at the fame has two suffered as equal fixe, will fetch

ACCOUNT OF SOME ANCIENT TOMBS FOUND IN THE

Siders as denoted assented and both are and briefly should be accompanied NORTH. BY MR. PAUL DEMIDOFF. of I bending

The Russians, in constructing a road from their country to China, discovered, in the fiftieth degree of northern latitude, and between the rivers Irtich and Obalet, a very extensive defact, covered in many places with tombs, or barrows, which have been mentioned by Bell and several other travellers. This defart is situated at the southern extremity of Siberia. It is said, that the inhabitants of the neighboring country have, for several years, searched here for hidden trea-

The Indians are wont with this view to make their through

great people in Germany, as neither dogs nor fire arms can be used here. But what is most to be admired in all this affair is, the great boldness of the buntsnen, who know how to man nage this animal, in itself so terrible, as readily as a skilful huntsnan in our country manages his hounds. These kornacks, or huntsnen, have a trifling pension; but the country fellows that help to drive the elephants together, have only that one day taken off from the number of days on which they are

obliged to labour (as vaffals) in ordinary fervices.

11. Another method of taking thefe animals, is that which is practifed (in the countries respectively subject to them) by the orders of the feven tributary Princes. They have pits, fome fathoms deep, in those places whither the elephant is wont to go in fearch of food. Acrofs thefe pits are laid poles, covered with leaves, and in the middle baited with the food of which the elephant is fondest. As soon as he sets eyes on this, he makes directly towards it, and on a fudden finds himfelf taken unaware. His new fituation at first sets him almost mad; at length, however, he becomes cooler, and betkinks himself what he shall do in these disagreeable circumstances. Accordingly, having first thrown from bim the materials of his fnare, which had fallen in with him, he makes fome endeavours at getting out; but finding himself too heavy to accomplish this, he cries out for some of his own species to come to his affillance. At length he fees some of them coming towards him, and flatters himfelf that they are come to help him out. This, in fact, they do; but, being of the tame domesticated kind, as foon as they have pulled him out by means of ropes, they make him prisoner, and deliver him up into the hands of their leader. If he appears discontented at this treatment, and endeavours to regain his liberty, he gets well threshed; and is disciplined in this manner, till he submits with a good grace to be fettered and led any where, just as his driver pleases. That he may be got out the easier, the pit is made rather shallow, and shelving on one side, so that he can in some measure help himself out: otherwise it would not be possible to draw out fuch a large and heavy animal, without doing him some damage.

III. The third and last species of capture, is that practifed by the Moors (as they are called in those parts, from their following the doctrines of the Koran) who by these means are enabled to pay their rents to the Lords of the Manor, the Dutch

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East-India Company. It consists of the following manoevress in times of drought, when the elephants, being in want water, are used to haunt certain particular spots, where they know they shall find water to quench their thirlt, these people (a strong and hardy race of men) go a hunting in parties, confilling of four men each, accompanied by fome flout young lads, their children, whom they have brought up to this bufiness; and in this manner fearch the wood through, till they have found a herd of elephants. Having attained this point, they pitch on the largest of these animals, and keeping continually hovering about him, endeavour to get him away from the reft. The elephant, on his part, wishes for nothing so much as to get rid of these troublesome visitors, and accordingly strives to drive them out of the wood. On the other hand, the boldest and most expert of these fellows, with an ebony stick which he carries with him, about two feet long, begins a fram fight wit the elephant, who bangs the flick hearthy with his proboicis. But the Moor parrying the strokes, and taking care to a cold coming to close quarters, by leaping nimbly from one tide to the other, the elephant grows extremely angry, and does every thing in his power to dilarm this strange fencing master, and take his life. But belides this more adventurous enemy, he finds he has two more to cope with, one on each fide of him: and while he is engaged with these, a fourth comes behind him, and watching his opportunity, throws a rope, made into a noofe, round one of his hind-legs. At this instant, the lads, knowing that the animal has work enough cut out for him before him, and that his whole attention is taken up by the flick, approach him with the greatest boldness, and fastening the noofe as quickly as possible round his leg, drag him on till they find a tree fit for their purpose, to which they fasten him, and let him stand. In the mean time two of the men run home, and bring a tame elephant, to which having coupled the wild one, they lead them together to the stable.

By one of these three methods are all the elephants taken in Ceylon. There is a sale for these animals in the kindom of Jassinaptnam every year in the month of July. The merchants of the coast of Malabar and Bengal are invited to it by advertisements, in which the size and sex of the animals that are put up to sale are specified. On the appointed day, all the beasts are brought into the market, distributed into certain lots, each lot containing the different sizes, great, middling, and

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ing wild on the spot, and partly planted there for the purpose. efe trees fland very close and near to each other; and were there is any gap, very ftrong palifades are brought to fill it up, so that the elephants cannot by any means get out. As foon as the hunters have given information that they have numerous troop of elephants, discovered a tolerable the principal people of Ceylon are obliged to bring together several thousand men. By means of these, the whole drove, thus inclosed, is driven flowly towards the first opening of the korakl, that takes up an enormous space. When they have got them thus far, the game is, as it were, in their hands. The whole train of huntfinen and country people now unite, and draw up close into this opening, and making a great noise and uproar, as well by their cries as instruments, which they carry with them for the purpole, they contrive to get the elephants, who keep together in one drove, like a happy and peaceful family, into the smaller space, which is called the sporting korahl. Here there is likewife formed a palisadoe (as it were) of fix or feven thousand men, who make a large fire, and at the fame time an intolerable din with fhouting, drumming, and playing on the hautboy of that country, fo that the elephants are frightened; and, instead of going backwards, move forwards towards the finallest space, called the forlorn bope. This strait is closed likewise with a large fire, and a great clamour is made as before; by which means, the elephant being feemingly stunned, as it were, looks round about him, on all fides, to fee if he can obtain his freedom, which he hopes to arrive at by means of his bodily strength. He tries each fide of the korahl's fence, but finds, that with his firong trunk he is not able to fell the flout trees that are planted there; in consequence of which he begins to be in a passion. inflating his probofcis with all his force. He now observes that the fire comes, nearer and nearer to him; accordingly he ventures into the finall outlet of the korahl, and feeing the tame elephants stand at the end of it, imagines that he has at length obtained his freedom. This narrow passage, through which one of these animals only can pass at a time, is covered at top; on this top are placed fore expert huntimen, who drive the elephant to the end of the passage with a flick, to the top of which is fastened a tharp-pointed hook. As foon as they have got him here, they take away the beams which close the end of the paffage, and leave the opening free. Now the elephant rejoices like a prifoner just broke out of his confinement. Accordingly he takes a

pretty large leap, but just at the moment he finds, standing by his fide, the two tame elephants (bunters, and more co monly crimps), who oblige him to fland still, and keep him fare between them. If he refuses to stand and be obedient, they begin to discipline him with their trunks; and by their master's orders, thresh them with these slagelatory instruments in such a manner, that from the mere pain he is forced to evacuate the contents of his body. Now, when at length he finds that he cannot escape from the power of these unrelenting beadles, he gives the affair up, and with a good grace allows himfelf to be led to a tree at a small distance, to which he is bound by the hind-leg with a flout thong of untanned elk or buckfkin, and here they leave him and take the tame animals back again. When one of these beasts has thus been led out of the korahl, the others follow more willingly, being all in hopes of obtaining their liberty, as they have feen nothing to make them suspect the fate of the first that went out. When the hunt is quite finished, all the elephants are seen fast bound to trees. In that manner they are to stand several days, being all the while kept low in point of food, in order that they are not now their own masters, but subject to the will of others. Attendants are placed by the fide of each other, who give him his food by little and little, to the end that he may learn to diffinguish, and grow acquainted with mankind. At first he looks very four on an attendant of this kind; in the course of a few days, however, he becomes more refigned to his fate, and allows the former to come near him and handle him. He likewife foon comes to understand what his governor fays to him; and even fuffers a strong rope to be thrown round his neck; with which rope he is coupled to a tame elephant, and fo led into the Stable. This is performed in the following manner: A tame elephant has, on either fide of him, a wild one; and, if he is of a great fize, he has even two finaller ones on each fide. The kornack fits on the tame animal with his sharp-pointed hook, with which he turns the creature by the head the way he would have him go, and thus leads his captured elephants to their flables, in which are driven down flout poles or trunks of trees. To these they are fastened by the hind-leg, at some distance from each other, to that they cannot come together; and they are suffered to stand, being fed daily with cocoa-nut leaves, and once a day led to water by the tame ones, till the proper time arrives for taking them to market and felling them. It is eafy to imagine, that this kind of hunting is attended with more trouble, noise, have chosen you to be an authentic testimony of my greatness. It is even in the weakness of your sex that I will display

" my power."

Immediately, by virtue of a divine cap which he puts on her head, he infuses into her a knowledge of theology; makes her acquainted with all the subtleties of the schools; inspires her with the talent of disputing categorically, and bestows upon her such a share of assurance, that she is able to silence the most obstinate antagonist, as well as the most subtle philosopher. Jesus then disappears. Catherine, filled with that courage which the presence and conversation of the Saviour insused into her soul, and burning with a desire to attack all the doctors of the university goes and asks the vacant chair from the governor of the city.

These two acts must prove highly interesting to the audience; but lest they should not perhaps have the same effect on the

reader, we shall proceed to the last act of the piece.

In the last act, St. Catherine is seen seated in the professor's chair, disputing with great elequence against all those who dare encounter her. The cap performs wonders. Around her stand a number of doctors, in gowns trimmed with surs, whose pride, soon humbled, gives place, though with reluctance, to jealous admiration. Catherine, however, is not entirely triumphant. An old doctor arrives, pale visaged and almost bent to the earth, whose presence revives hope in the hearts of the vanquished. Every eye is fixed upon this old champion; but nobody knows him. He is, indeed, no other than the devil—a being ever ready to thwart, in every thing, the designs and it power of our Saviour.

He approaches flowly, with a large pair of spectacles on his nose, an evident testimony of his great ability; his long robe sweeps the hall; but it is too short to cover an enormous tail, which he in vain attempts to conceal. Satan is now known; and the whole assembly wait with equal impatience and fear to see the issue of a combat, from which they dare not hope that Ca-

therine will extricate herfelf with too much honor.

The cautious demon advances, and a thefis is presented him, "on the immortality of the soul." This he denies, and supports his affertion with great art and address; but Catharine after having suffered him to run on for some time, at length silences him by the following argument: "Orpheus went down to hell, "therefore the soul is immortal." Behold the devil soiled! the whole assembly testify their applances, and a thousand voices repeat, "He is consounded!

The poor devil is now hissed and hooted at, and obliged to for from the hands of the enraged multitude, who pursue him we

great fury.

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The company then proceed with much triumph to inftal Catherine into the distinguished and honorable office of Professor in Theology, and the ceremony concludes with a grand ball, at which all the citizens of Alcala dance, together with their wives; and they oblige all the members of the University to dance along with them.

CURIOUS ACCOUNT OF CAPTURING ELEPHANTS.

Curious Account of the different Methods of capturing Elephants; together with the uses they are generally put to; from the Life and Adventures of John Christopher Wolf, late principal Secretary of State at Jaffnapatinan, in Ceylon.

JOHN CHRISTOPHER WOLF, it appears, set out in the early part of life, with a shilling only in his pocket, and without either friends or education, raised himself by patience, industry and an inviolable attachment to truth and secrecy, to a situation equally assument and honourable. His curious and adventurous turn, which set him sirst associated on the wide ocean of the world, remained with him throughout life. He was employed either in active pursuits or in curious observation. What struck him he naturally convinced would strike others; and he therefore committed it to writing for their information and anusement. His narrative carries in it all the marks of a plain man of low education, but of natural integrity and rectitude.

Some of this author's reports border upon the marvellous; but as the following particulars concerning the elephant are curious, we shall here insert them for the amusement of our rea-

ders.

"A certain kerahl * has been used for these many years past, in which most of the elephants in Ceylon are caught. In order to have some idea of this korahl, you must imagine to yourself a large sishing-net, with two staps standing out wide from each other, and terminating in a bag. Now this snare consists of a collection of stout and vigorous trees, partly grow-

^{*} The word means, in the larguage of Ceylon, " Tois for ele

Of the translations of Madame du Boccage something more must be said. Lord Chesterneld's opinion, as it is written to another Lady, will not be suspected of slattery. Speaking of Voltaire's absence from France, he thus writes: 'You have so many wits at Paris, that you will not miss him. The very Ladies supply the loss of him. Madame de Graffiny's pathetic play is excellent in its kind; and I assure you Madame du Boccage's Milton has great merit. She has abridged it considerably, but with judgment; and her Translation of Pope's

Temple of Fame is amazingly accurate.

But an abridgement of Milton may startle the fond admirers of that superior genius. Let us hear our fair Author herself:
Desirous of gaining the applause of my country, in conforming to its taste, I have not been apprehensive of being reproached by the English for the alterations I have ventured to make in a Poem which they hold in such veneration. Notwithstanding the admiration with which the Iliad has been read in every age, the Critics have found repetitions and too long descriptions in that divine Poem. The French have imagined the same desects in the Paradise Lost; and Mr. Pope, although an admirer of the great beauties of this work, has had the hardiness to express himself thus:

Milton's strong pinion now not Heav'n can bound; Now, serpent-like, in prose he sweeps the ground; In quibbles Angel and Archangel join, And God the Father turns a school divine.

Upon this authority, I have much abridged the Description of the Combat of the Angels, which appeared to me to be too highly coloured to be copied by my feeble peneil; and I have thought it requisite to retrench, as foreign to the subject, the comparisons drawn from the Pagan Mythology, the Pastimes of the Infernal Spirits, and many other passages. A grand and sublime picture I have endeavoured to copy in miniature. In diminishing the seatures, and contracting them within a narrower space, they are sometimes very sensibly weakened, and with their proportions, their resemblance also is too often lost. If I have succeeded in presenting, in one agreeable point of view, the charm and the interest with which the Author has depicted the felicity and the missortunes of Adam and Eye in their ter-

Author of ' Lettres d'une Peruvicane.' She died in 1758.

however, to have given a complete idea of the prodigious genus of Milton, of which those w o do not understand English may form a more adequate conception by consulting the elegant tran-

lation of M. Dupre de S. Maur."

We will not examine the objections which Madame du Boccage and the French Critics have urged against the Paradise. Lost. Whatever weight they may have, our amiable foetess writes with becoming modesty and dissidence. Her imitation is undoubtedly elegant, and she has done as much justice to her subject as the French language will allow. But after all, if she is below the grandeur of her original, it may be asked what imitation, how excellent soever, can do justice to such an Author, or give an adequate idea of what Algarotti terms, 'la gigantesca sublimita,' the gigantic lostiness of Milton.

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CURIOUS ACCOUNT OF A SPANISH PLAY.

etgry die, the Carrachieve sound reportitions and too long deless sound in the divine found. The Franch have magniced the

man denote having Privatelly and Mr. Pope, although

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THE Spaniards, that is to fay the illiterate part of them, are firmly perfuaded that St. Catherine taught theology in the University of Alcala. To doubt of a fact so well authenticated, would be to expose one's self to the sury of the Inquisition.

The first act of this piece is taken up with the funeral ceremonies of a professor of theology at Alcala. The university attend in a body, to give public testimony of their grief, and the professor's funeral oration is pronounced with great gravity. Next come a troop of students, who form a kind of dance, in which some of them represent the Virtues and others the Vices. This is not at all surprising upon a theatre, where, in another tragedy, the twelve peers of France, with the Emperor Charlemagne, are introduced, the Cardinals of the sacred college, and sometimes his Holiness himself.

The fecond act commences with an interview between St. Catherine and the Saviour of t e world. "Catherine, my "girl," fays Jesus, "do you know me?" "Ah! Lord," replies she, "though my eyes should not be able to know you, can my heart not know you?" "Catherine," returns Jesus, "I

Florence, Cortona, and the Arcades, were proud to enroll among their members a female who made fuch a figure in the Republic of Letters. At her reception in the latter, many Princesses and Cardinals, with many of the literati, did her the honour to be present. In her letters she mentions these honours with the charming conciousness of real but unassuming worth; 'Trembling, and with a faltering voice,' fays she, 'I endeavoured to express my gratitude in verse*. I was the Saint of the day. The worthy Secretary of the Academy, the Abbe Morei and many others, vied with each other in praifing me with all the exaggeration which the Muses permit. The young Prince des Urfins pronounced with equal elegance and fuccess some Latin verses of which I was the object. His fifter, the Dutchess d' Arce, also repeated some Italian lines that were far better than the subject; and she paid me a compliment very wirty and very elegant indeed for a pretty woman of fixteen. On venturing to tell her father, that her daughter was the Goddess of Rome; ' No, Madam, answered the young beauty, who happened to over-hear me, ' the Romans ever took their Deities from among strangers.' I was at a loss for a happy reply. Certainly Flattery is folid food: they nourish me with it, and it wonderfully improves my health.'

Madame du Boccage finished this tour by a visit to Voltaire at his Castle of Ferney. This great man was happy to patronize her, as was Fontenelle, the only Author of reputation with whom he had not been at variance. The latter called her his daughter, and under that appellation, had recommended her when in London, to Mr. Folkes, then President of the Royal Society. But Voltaire made her the theme of one or two poetical effusions. With his Tragedy of Semiramis he sent

her in 1747, the following lines:

Translation.

I rashly vow'd to sing one day
The graces, wit, and art divine,
That can with such resistless sway
Phebus and Venus' charms combine.
Curious each object I descry,
This blendid excellence to find;
No other could attract my eye,
No other could delight my mind;
Till Du Boccage appear'd in view,
When to all search I bad adieu.

[.] Je begayai on tremblant un remerciment rime.

At another time, being at Lyons, on her way to Italy, wrote to Voltaire in Italian, that, on account of being invited to be prefent 'at the ceremony of the Doge's marriage with the Adriatic fea, the could not then visit his delightful retreat. To this the Bard returned the following answer, which, being written in three languages, delicately complimented her on the eafe with which the had acquired the English and Italian:

TRANSLATION.

You, who on Parnassus reign, Go to the Capitol, and gain The Poet's high unfading praife, Petrarco's myrtle, Taffo's bays. Could they, illustrious, live again, To you would they devote the strain; Charm'd by the magic of your eyes And numbers that immortalize, Both at your feet would vanquish'd die, Victims to love or jealoufy.

And fo, Madam, after you have feen the cornuted hufband of the Adriatic Sea, you will behold the Father of the Church, and you will be crowned in the Capitol by the hands of the good Benedict. When you have received the poetical crown of the holy Catholics, you are to return by the way of Geneva, and triumph among the Heretics. But though your journey be intirely in the career of glory, you will not forget, in your ample flight, to touch at our happy but humble habitations. The uncle and the niece*, affectionately kiss the hand that has written fo many beautiful things, and recommend themselves to your goodness with all possible attachment. -- Good journey, M.Iton's daughter, Camoen's lifter. Depend upon it, Madam, that we shall never forgive you for not having taken the route of Geneva.'.

Such were the honours that this illustrious woman received and fuch the happiness she enjoyed, till the year 1767, when the was deprived of her hufband, who died on the 20th of August. This Gentleman, who, as we have before observed, was equally devoted to the Muses, distinguished himself by some excellent translations from the English Since that period Madame du Boccage has chiefly refided at Paris.

In Boscage appear that yis

Madame Denris. 2 11 of 100 f

dame du Boccage, 'is really a curiofity. For nineteen years he has never laid afide his robe-de-chambre. The apprehention of being poisoned renders him absolutely savage; but on the recommendation of my Lord Chesterfield, who assured him, that in no respect whatever I resembled a Brinvilliers, * he condescended to receive me. I arrived then in his fine garden. I was richly dreffed. The Hanoverian Minister, who had given me his hand, questioned much whether the Baron would appear. At that inflant he issued from his grotto with a serocious air, which foftened, however, as he approached. My benign figure inspired him with complacency. 'Muse,' said he, 'the idea I had formed of your features does not refemble you. What! has not study withered your charms? What an agreeable furprize!' He crowned this gallantry by repeating half my ' Amazons by heart. 'Your tragedy in the Greek tafte,' he added charms me, Madam, by the simplicity of the subject. You may imagine, that in my answer I attributed this partiality to the powerful contenance of my Lord Chesterfield. He then defired me to be feated, and, standing at a distance, astonished me by his memory, his volubility, his extensive knowledge of ancient and modern literature in almost every language, and his perfect acquaintance with our numerous and most trifling productions. I heard him about an hour, and then took my leave.'

On her return to France, Madame du Boccage found that Lord Chestersield had not forgotten his obliging professions of esteem. That Nobleman sent her the busts of our four great Poets, Shakespeare, Milton, Dryden, and Pope. This stattering mark of attention to her his Lordship preceded by a letter, from which we cannot but select the following passage: "How, Madam, can I ever repay the pleasure you have procured me, not only by the books you have sent me, but still more by the letter you have honoured me with? At least I think I have hit upon an expedient to acquit myself, and that is, by sending you four Ambassadors to make you an apology in my name; though, by the way, their own names are far beyond mine. They are Shakespeare, Milton, Dryden, and Pope, the ornaments of our nation, who, if they knew you, would

IV. to whom the dedicated har Collaboration

The Marchieness of Brinvilliers, a wretch, who, affociating with an abandoned man, formed a kind of science of poisoning, and was executed at Paris in 1679, after having been convicted of the murder of her father, two brothers, and a sister.

effecem it an honour to be placed in your house. You will find them there on your return to Normandy. They fet out next week for Dieppe. I beg you will shew some kindness to Dryden, who is jealous of the preference you have given to Milton You may give Shakespeare what reception you think proper, as he fometimes deferves the best, and sometimes the worst.' When Madame du Boccage found the busts at Dieppe, she returned an answer to his Lordship, from which we selest the following passage: 'I waited, my Lord, till my return to this place, to thank you for the invaluable present you announced to me while I was in Holland. I should hope that your great men would teach me to answer one of themselves, who knows better than any one how to value them, and who to their literary merit unites that of the Statelinan and Citizen of In this idea I feverely reproached these celebrated bufts for having croffed the fea unaccompanied by your's. Ye illustrious dead, faid I, to your busts I would prefer the reprefentation of that illustrious living character who fent you. His features would continually awaken my recollection of his goodness, with the hope that one day I might again enjoy the charms of his conversation.' Lord Chesterfield continued to correspond with this amiable Lady; and feveral of the letters which he fent to her now appear in his Miscellaneous Works published by the late Dr. Maty. To her countenance, moreover, when at Paris, he strongly recommended that favourite fon, whose slender attainments in what his Lordship deemed the only effential objects of cultivation, with his premature diffolution, evince the vanity and folly of all education, that has not in view the improvement of the heart, and the acquifition of that happiness which only Innocence and Sincerity can render permanent.

In the beginning of the year 1757, Madame du Boccage made a tour into Italy. During this journey, the Alps, the Appenines, Vesuvius, and a thousand other objects the most propitious to Poetry, successively inspired her Muse. Nor was she less distinguished in this feat of ancient arms and arts, than she had been in that happy island, where Liberty has so long fixed her favourite abode. At Rome, where she resided several months, she was caressed by Pope Lambertini * and his worthy friend the Cardinal Passionei. The Academies of Bologna,

Benedict XIV. to whom she dedicated her Columbiad.

Memoins of the Life and Writings of Midame Du Boc.

HE Ladies have not always reflected how much they degrade themselves, when they aspire to no higher merit than the fugitive charms of beauty. Infinitely more is requifite to afford those delights which we naturally hope from their fociety, and to fecure an attachment to their persons when their first attractions are no more. Among intelligent beings the intercourse of society ought not to be limited to an insipid commerce of unmeaning flattery and corrupting infincerity; for, when women unite a folid understanding, with a heart innately good, and cultivated by virtuous learning, to the native charms of person, and the acquired accomplishments of the sex, they become the brightest ornaments of society, and the sweetest confolation of life. In the conversation of such women every thing is interesting, and receives those delicate touches, which they alone are capable of giving. Such companions open and expand our understandings, divest us of rusticity, and teach us a certain elegant eafe that can never be acquired in the college" or the closet.

In our own country we are happy to know some bright examples of senale excellence. Among these the names of a Carter, of Montague, a Barbauld, a Seward, &c. are eminently illustrious. But, while we pride ourselves in these, we are obliged to confess, that in France the instances of semale genius are much less uncommon; for, in that country, not less than four hundred women, some of them of very high birth, have been renowned for literary talents. In this brilliant assemblage, not the least distinguished is Madame du Boccage, the subject of these Memoirs.

This celebrated Lady, whose maiden name was Marie-Anne le Page, was born about the year 1720, at Rouen in Normandy. Her beautiful person, and amiable character, soon attracted a number of admirers. But the man of her choice was Monsieur Joseph du Boccage, a native of the same province, in which he enjoyed an office of considerable emolument. Attached like herself to literary studies, their life was blessed with all the happiness that could be derived from a persect conformity of taste and inclination, an easy fortune, and universal essem. They resided chiefly at Paris, and were mostly employed in their favourite amusement, the cultivation of letters.

Madame du Boccage perfectly understood the Latin, English, and Italian languages. This enabled her, besides the essusions of her own happy imagination, to enrich her country with translations of uncommon merit. Her capital work was 'La Collumbiade, ou la Foi portee au nouveau Monde,' an epic poem in ten books, of which the great Columbus was the hero. The productions of her dramatic Muse were an Opera and 'Les Amazones,' a Tragedy. Among her smaller pieces, some were honoured with the prize given by the Academy at Rosen. Her principal translations were 'Le Paradis Terrestre,' an imitation of Milton, in six books, and 'The Temple of Fame,' of Pope. These various efforts of a female Muse naturally exalted her into universal estimation.

Not content, with a purer mind, to be the Sappho of France, our beaut ful Poetels did honour to her country as an amiable and enlightened Philosopher, by travelling into other nations, attentive to their various manners, and communicating her lively and instructive observations in a series of Letters which were afterwards published in French, and translated into English. These Letters were written to her sister, Madame du Perron, the widow of a Counsellor of the Parliament of Rouen. They contain a curious and entertaining detail of every object that could interest an inquisitive and intelligent mind, in England, Italianal and Italian which the finance franches wifted.

Holland, and Italy, which the fuccestively visited.

Her first voyage was to England in the beginning of the year 1750. She was accompanied by her hufband, who appears to have been equally happy with herfelf in the reception they met with from persons the most distinguished for rank and wit. Lord Chesterfield shewed them uncommon civilities during their stay in England, and his example was followed by the Duke and Duchefs of Richmond, Lord and Lady Hervy, Lady Allen, Mrs. Cleland, Mrs. Montague, and many more. The late Prince of Wales came one morning incognito to the house of Lady Schaub, in order to breakfast with Madame du Boccage. He was delighted with her convertation; and, by his express defire, the was prefented in form to his royal confort. On the departure of our Poetels for Holland, in June 1750, Lord Chesterfield strongly recommended her to several persons of distinction and particularly to the Baron de Kreuningen. This Nobleman, who was living in 1779, to great fingularities united great knowledge and great parts; and her interview with him the relates in an agreeable vein of pleasantry: 'The Baron,' says Ma-

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VIII. ANIMALS.

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Hens and turkies are most exposed to the effects of frost; several hens lost their legs; which did not, however, prevent them, after the thaw, from laying eggs; they supplied the loss of their legs by employing their knees in walking. In general, the cows and horses suffered little, being well fed and kept warm.

Extract of a letter from MADAME NECKER to Dr. PERCIVAL, of Manchester, dated Versailles, March 9, 1789.

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RANSLATION .- "Your wishes for the suppression of the trade in Negroes are not more ardent than mine. The English have many treatifes upon the subject; and nothing, I think, ever did more bonour to their nation. But a general concurrence of all the European governments being wanting to effectuate the abolition, the wishes of individuals have been hitherto rendered fruitlefs. I can answer for the heart of M. Necker; a heart which embraces the whole human race, and which knows no greater felicity upon earth, than that of contributing to make their lot more comfortable; but he is a minister of state; and he must endeavour to give confistency to his various duties, and to confider the good of France before that of Africa. For my own part, who judge of things only by fentiment, and am accountable only to my heart, I turn my thoughts inceffantly towards a revolution, without which, it appears to me, we can never hope to be Christians, nor even to be men; or, to speak plainly without which, we may be justly compared to bears and tigers, which room the forest .--Continue, generous English, to set the example of all the good which is done in the world. And may we be always your rivals, and never your enemies!"

In the course of correspondence with MADAME NECKER, the following answer was returned to these observations:

"Permit me again to folicit your influence with M. NEC-

you state his comparative obligations towards France and Africa are not strictly accurate. A great minister is responsible for the bonour and probity of the people, whose affairs he directs; and no end, however ligitimate, ought to be pursued by unjustifiable means. But in nations, as amongst individuals, there subsists a high and magnanimous, as well as a fordid and ignoble interest; and whenever these are in competition, there can assuredly be no doubt about the preference. With regard to the traffic in the human species, I trust it will appear, that policy and profit are light in the balance, when weighed against humanity and rectitude; and that they will, eventually, on a more

enlarged view, be found to be perfectly compatible."

There is reason to believe M. NECKER would have employed his most strenuous exertions in the abolition of the slave trade, if the distractions of France had not driven him from the helm of government. The Rev. Dr. Frosard, author of an admirable work, entitled, "La Cause des Esclaves Negres et des Habitans de la Guinee portee au Tribunal de la Justice, de la Religion, de la Politique, published at Lyons in 1789, thus expresses himself in a letter to the writer of this article: "My work has received very stattering tokens of approbation from M. and Madame Necker. They have both thanked me in the most honourable manner: and the letter of this excellent minister gives me assurance that he will enter on the business of the abolition of the slave trade as soon as the establishment of affairs

in France will permit."

M. Turgot, who was comptroller of the finances of France in the years 1774, 1775, and 1776, and who is univerfally allowed to have been a man of pre-emiment talents, and of the most comprehensive views, proposed it, as one object of his administration, to suppress the traffic in the human species. The Marquis de Condorcet records the following fact concerning this enlightened minister: "A merchant desired to give the name of Turgot to a vessel, intended for the negro-trade. With the indignation of a virtuous mind, that could not be familiarized to a crime from the habit of seeing it committed, M. Turgot rejected the offer; and he was not asraid, by this resulal, of declaring publicly his opinion, at the risk of exciting against him all those who considered the promotion of their fortune as connected with the continuance of this infamous traffic."

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December). This period was attended with confiderable injury to animals and vegetables; some of its effects, taken from observation, we shall proceed to enumerate.

I. THE VINE ..

The effects of the frost on the vine were perceptible from the different colour of that part of it, which was under the flow, from that which was above, from the withered state of the steems, and the colour of the juice, which was black. What is remarkable, the young and stender vines suffered less than the old, which were taller and stronger, and even than those which were grafted. In spite of the precautions which were taken in spring to give them air, there were but sew clusters produced; the frost had seized the aqueous part of the vine, and at the moment of thaw, from the improper combination of the water with the spirit of the vine, there was occasioned a decay in the quality and colour.

H. FRUIT-TREES.

It was remarked that young trees, whose bark was smooth, fuffered less than old trees, whose bark was rough; from which it was concluded, that the congealed water fixed in the cavities: of the bark had occasioned all the injury. It was remarked that the bark of the frozen trees was black, and the wood of a yellow colour; the body of the tree and the branches were injured in feveral places: no means that were employed to remedy the effects of the frost completely succeeded. Several trees did not flourish, and were absolutely dead; others produced a. few buds that were foon'destroyed; some trees produced flowers and fruits, which fell in fummer, the trees themselves withered, and some brought their fruits to maturity, but are expected not to furvive autumn. Some trees were faved by cutting them very short, or by making incisions in the bark. Thole which fuffered most were the walnut-tree, the winter pear-tree, the apple-tree, part of the peach-trees, and the figtree; those which fuffered least were the plum-tree, the apricottree, the cherry-tree: those were most damaged which were exposed to the fouth.

III. FOREST-TREES.

The effect of the frost on the forest-trees has been to rend

them, which occasioned the loss of a considerable number. Those which suffered most were the oak, the ash, the clm, the lindentree, the filberd.

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IV. FOREIGN TREES.

These are but little cultivated in this country. It was remarked that the trees always green, as the laurel, lost their leaves; those called Les Arbres de Judee, and the toxicodendron, withered, both trunk and branches, but the roots produced new stems.

v. GRAIN.

The grain did not fuffer where it was covered with snow, and the harvest was sufficiently plentiful from Champagne to S. Quentin, where the snow had fallen two days after the frost: no grain was hurt except what had been sown late. But from S. Quentin to Flanders the snow did not fall till three weeks the frost, which made astonishing ravages in almost all brench Flanders, and a good part of Artois. The winter-bar-ley, and the corn sowed late, were entirely lost. After the thaw winter grain was sown on the sormer seed, in order to preserve what the frost had spared: this last seed quickly sprung up. In strong and rich lands winter-grain was sowed; in thinner ground, barley.

VI. KITCHEN-ROOTS.

All those plants were preserved which the snow had covered, but the others have been the victims of the frost, as artichokes, colewort, sellery, and the aromatic herbs; those preserved were the sorrel, lettuce, asparagus, and wild succory.

VII. FISHES.

So intense was the frost that the usual method employed for preserving sishes, by making holes in the ice, did not succeed, because the sishes, when they came to breathe at these holes, were at once enclosed between two pieces of ice. The sishes, however, in deep ponds, did not share the sate of the others. The eel suffered most on this occasion, and next to the eel the pike and the carp.

domi, we might expect from his refearches, the most important new discoveries in the science.

Professor MAYER, at Erlang, shines equally as a mathematician, a natural philosopher, and a chemist. HERMBSTADT is a strenuous advocate for the new doctrine.

The German chemists, WIEGLIEB, RICHTER, LEONARDI, and the rest above-mentioned, &c. in attempting to combine the new theory with the existence of phlogiston in combustible bodies, admit the general principle, together with its confequences. All they aim at, is, to refeue themselves from the pretended difgrace of a complete defeat. Those who still maintain the existence of this agent, consider it as the basis of light, or as light extinguished. This basis, stored up in abundance, in inflammable fubstances, when it meets and combines with heat, constitutes luminous fire: thus accounting for the fact, of combullible bodies re siring a certain degree of heat, in order to catch fire.

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These are re which some of the German chemists lay thown; with the tion, however, of these, they have all adopted the new 'do Van-Mons has been chiefly instrumental in effect ting enversion; having plainly demonstrated the presence : of then in the oxyde of Mercury, made

epresent GREN, WESTRUMB, GMELIN, When it is r and CRELL, m initially, the existence of phlogiston, it is not meant to affer and they still profess the principles of Stahl's theory. A late publication of GREN, who is a profound naturalist, mathematician, and geometrician, as well as chemist, is entitled, " The Foundations of the New Chemistry, agrees precifely with the principles of the French doctrine. his Manual Chemistry reprinted two years ago, he represented the theory of oxygene, in parallel with that of phlogiston. He had done nearly the same thing, the year before, in the second edition of his " Foundations of Physics." A third edition of that work has been just printed, in which he explicates the phenomena of the science, after the system of LAVOISIER. His Fournal of Phylics, of which feven volumes have been published, has always admitted, indifcriminately, the articles for and against both theories. GMELIN devotes his whole attention to historical and technical chemistry. In the second edition of his Manual of Chemistry applied to the Arts, just finished, he has given the theory according to the ancient principles. His Inproduction to General Chemistry furnishes an account of the

flate and progrefs of the science, in both theories.

WESTRUMS is a practitioner of technical chemistry, extremely well versed in the art. His writings on pharmac ye vince equally the man of reslection in a science where it cannot be denied,
that every thing still remains to be done. In both these pursuits,

he judiciously neglects reasoning for facts.

CRELL is the editor of the Annals of Chemistry, an invaluable collection, which has, in fact, given the grand impulse to the prevailing study of chemistry in Germany. In this work the editor expresses fait fully the very language, as well as opinions, of the authors. He makes some hesitation, however, to adopt the new principles; but at his age, perhaps, it is difficult to renounce long ententained ideas. Crell has also some correspondents, &c. (whom it is his interest to keep on good terms with) among the disciples of Stahl.

GIRTANNER, another eminent chemist, maintains, that phosphorus is compounded of zore and hydrogene; that it contains in it more or less of corbone, a principle which however, does not enter into its composition; that it may shine in azotic agas and carbonic acid by means of the water contained in those gardes; and that it is capable of decomposition, inasmuch as a hydrogeneous phosphorated gas may be procured from it in experi-

ments.

OF THE EFFECTS OF THE COLD of the Winter, 1788-89 on Animals and Vegetables. Read by P. Cotte in the Royal Society of Agriculture of Laon, September 5, 1789.

HE winter 1788-89 was rendered remarkable by the intense cold selt all over Europe, by the enormous quantity of snow, which covered the earth, and the effects which the frost produced upon men, animals and vegetables. The frost commenced the 25th, of November, and continued till the 13th of January, including a space of sifty days successively, with the intermission of only one day of thaw (the 25th of

cares and his tender offspring. Then it is that necessity, that knows no law, hurries its wretched victim either to drunkeness,

fuicide, or to midnight theft.

The confequence of diminishing the mass of articles of luxary and parade, which are for the most part sabricated articles, would be that the labour withdrawn from forming them would be devoted to agriculture. This would produce two effects. It would make the necessaries of life produced by agriculture cheaper, and it would make the articles of manufacture dearer. Thus t e life of the mechanic would be rendered happier, by his labour receiving an increased reward; the soil would be tetter cultivated by more labour being bestowed upon it; the seats of extensive manufacture, which administer to a pernicious huxury, would be destroyed; and the agricultural and mechanical professions would be brought nearer to a level.

An immediate consequence of this state of things would be, as has been observed, an increase in the value of the labour of

means, there would be little necessary poverty. Society would be burthened with few paupers, and crimes, by removing the Arongest temptation to their commission, would be greatly diminished.

Numerous are the additional benefits that would flow from this reformation in the halies of life. It is not necessary to prefent a comprehensive enumeration of them. It would not be practicable, if it were, without writing a volume instead of an essay. A few only of the beneficial effects will therefore be stated.

The present extravagant confumption of foreign luxuries would be diminished. Their immoderate use essentially depends on an ability topay for them; were this destroyed their consump-

tion would of course decrease.

Much corruption of manners would hereby be checked, if not destroyed. Every nation has its appropriate habits and manners. In a peculiar sense may the United States be said to have their appropriate habits and manners. The salse splendour of courts, the pride and distinctions of rank, to them are and ought to be unknown. The close intercourse, which extensive commerce produces, the habits of imitation it generates in the dependant nation, are hostile in an extreme degree to characteristical simplicity of manners and virtuous habits of life.

The fame causes, that produce a general imitation of manmers and a spirit of dependence arong the individuals of a na-

tion, imperceptibly shed their pernicious influence over the deliberations and proceedings of the nation itself. As foreign influence is always hostile to national independence, the injurious extent of its prevalence can scarcely be estimated. Whatever, therefore, annihilates or even controls it, unless in more important respects subversive of the public good, claims

national approbation and adoption.

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If a state of independent tranquility and undisturbed peace is the most intimately connected with national prosperity and individual happiness; if it insure to nations advantages substantial and perm nent, whose lustre is altogether native, and which never allures by delutive attractions; if it infure to individuals the possession of their rights, the enjoyment and improvement of their property, free from apprehension; what citizen of a republic, the basis of whose government is the public good, will raise his voice against those measures which are calculated to give perpetuity to it. That fuch will be the effect, who can doubt, when he reflects that almost all the wars, which for centuries past have deluged Daroge in blood, have arisen from disputes connected with commerce? Let us then rely upon this truth as unerring, that the less intimate our connections with European nations the more likely our ability as well as disposition to avoid mingling in their contentions, or furnishing subjects of contention obvielves. .

STATE OF CHEMISTRY IN GERMANY.

An entire revolution in the fystem of chemistry has been recently effected in Germany. The existence of the doctrine of phlogiston, with certain qualifications, had Rill, however, a few partizan remaining: GREN, a feholar of confiderable repute, although too tenacious of his opinion, WESTRUMB, GMELIN, and CRELL:

TROMMSDORF, who is a convert to the new doctrine, still adheres to some remains of the ancient system. Gottling has promulged a new hypothelis, which he is eager to appear the champion of. With regard to the junior chemilts of that nation SCHERER DE JENA is the most promising; he is a man of extensive talent, an excellent experimenter, and zealously attached to the French chemistry. Were it not for the res angusta

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many fucceeding ages. The subject, however, is well deserving of the examination of the enlightened friend of mankind.

It is not deemed necessary to define what is meant by the necessaries and conveniencies of life. This would be to enter into too wide a field of disquisition. It would also, in a great measure, be useless. For they are not, perhaps, the same at any two periods of the progress of nations. They depend on climate, on the state of improvement, on manners, and on a variety of causes, whose combination would be necessary before the desired result could be ascertained. The meaning of these words is, however, distinctly understood by all men. In trusting, therefore to their common sense, there will be little danger of producing

misconceptions.

If the records of history be appealed to, it will demonstrally appear, that the poor who constitute the great mass of nations, have basely dragged out a miserable existence among those nations which were celebrated for the prevalence of luxury and the unequal distribution of wealth. It is unnecessary to go back to nations, over whose manners time has thrown a dark veil. Indeed, it is useless to look at all into the past. We shall have abundant proof of the truth of this remark from the present state of existing nations. In those countries where there is most labour, there is most wretchedness. In England, at present, and in France, before the Revolution, we behold a greater mais of poverty and wretchedness, contrasted with splendour and apparent happiness, than are to be seen any where, unless among the nations of the East, labouring under the double difficulties of their native, as well as European tyrant. Of all nations, ancient or modern, England has extended manufactures, which doom men to the most oppressive labour, to the gre test length; and in France, the corruption of the most splendid court in Europe, had produced a degree of oppression, unlimited as the caprice of despotism. Should it be granted, though it is equivocal, that the productiveness of let us say, eight hours of well directed labour, would be inferior to that of twelve or more, yet it does not follow from this concession that it would not be adequate to all the substantial wants of society. Why, is it that the labour of flaves produces fo little compared to that of freemen? It is not because their labour is not incessant. No. It is because no superintendance is equal to that of an intelligent mind; and because, or unremitted labour, corporeal vigor becomes exhausted and the spring of activity loses its elasticity. It may be doubted, whether half the time at present devoted to labour

among flaves would not be more substantially productive than the almost unceasing employment which they now undergo.

If we furvey the different classes of men that form a nation, and estimate the portion of comfort that each enjoys, it will in almost every instance appear that agriculture presents to its cultivators the greatest happiness. This happiness will be found to confift in tranquility of mind, in simplicity of manners, in independence of spirit, in the indulgence of moderate wants, in the enjoyment of health, and in frequent intervals of exemption from hard labour. It should not be here lost fight of, that while this labour continues it is of the severest kind, and that it is submitted to with the greatest chearfulness. Now this patient and even chearful endurance of labour, we contend, arifes principally from the affurance of being foon rewarded by a season of leisure and social enjoyment. This is the state of much the larger portion of men, and must always continue to be fo. While therefore we pay a tribute of gratitude to the benevelent author of our being for placing the greatest part of his creatures in a fituation fo connected with their happiness, let us improve the obvious reflections fuch a train of thought produces, by confidering that it is our duty to keep ourselves and others as near this state as possible, and by resting assured that the further men remove from it, the further do they remove from their true happiness.

When we contrast the manners of the agricultural state, with those of large towns which are the seats of extensive manufactures, we shall behold a perfect contrast of light and shade. A negative difinition is sometimes better than a positive one: Were this to be given, it would not be incorrect to deny of the greater part of mechanical professions all that has been affirmed of a state of agriculture. Extensive manufactories are univerfally the feats of dift afe, of extreme poverty, fo extreme generally as not to yield in anticipation provision for the enfuing week, of vice of almost every description, and of a spirit humble and inanimate as the dust as to all those objects on which an independent spirit ought to be exercised. Such are the effects flowing from large manufactories in time of peace. Even then they may be called, as many distinguished writers have called them, the graves of the human race. If fuch be their character in times of national tranquility and prosperity, to what shall we compare them in periods of war and adversity. It is then that ruin stares thousands in the face, and famine rapidly approaches not only the father, but also the partner of his

a great way into the country, he met with whole herds of elephants, which were first observed in a coppice, by a Hottentot who had climbed up a tree. The African having remarked one separated from the rest, Mr. Vaillant made a circuit, in order to get a better view of the animal, which he faw shake its head; for the elephant, when motionless, amidst the obscurity, appear. ed to him like a rock. He fired at it, and the ball of his carabine penetrating its forehead, killed it upon the spot. Mr. Vaillant, however, had the prudence, before he fired, to point out the coppice to his Hottentot, giving them orde s to fet fire to the bulhes, and to the dry and long grafs which furrounded it, as it is well known that elephants may always be put to flight by fire. This traveller killed five others at the bottom of a rock, to which he had retired, in order to avoid danger: he dispatched them with the greatest facility, as the whole troop in their flight were obliged to pass within musket-shot of the place where he flood. He killed also five cameleopards, one of which animals was brought to Paris *.

He remarked that the lion when not hungry flies f om man; but one bolder than the rest stopped and gazed upon him, with a look full of majestic dignity, which Mr. Vaillant returned with equal sirmness and intrepidity, without turning aside, and with-

out attempting to fly.

This botanical traveller had a cock with him, to serve him instead of a watch, in case his time-keeper should be deranged;
and an ape, to taste the fruits and provisions, that he might
know those which we est to be eaten. This wise precaution,
perhaps, saved him from being possoned. The cock followed,
fearching out his way du ing the whole journey; and the ape, to
refresh itself, sometimes got upon the back of one of the large
dogs, with which he lived in the greatest harmony.

Mr. Vaillant, who employed five years in this journey, has brought with him a curious and valuable collection of plants, engravings of which are executed. He has travelled over a confiderable part of Africa in the course of this expedition, and viewed many curious objects, which no other European ever

had an oppo tunity of examining.

^{*} Few of these animals have ever been seen alive in Europe. They were formerly shown at Rome as great curiosities. Suidas observes, that Caelar was the first who exhibited one of them to the Roman people. Several of them attended the triumphant entry of the Emperor. Aurelian.

Por the American Universal Magazine.

REMARKS ON INDUSTRY, No. II.

HE first proposition I have stated is, that men have de-

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That the poor of a nation must always be the instruments of labour, and that as far as this labour furnishes the necessaries, and even the conveniencies of life, it is rationally directed; but that as soov as in addition to these, it employs itself with enervating toil in works of luxury and extravagance, it depreciates the value of its services, and receives no greater reward for twelve or more hours of rigid employment, than it before received for the product of a much smaller number.

There can be no divertity of opinion with respect to the truth of the fact that the poor of a nation must always be the instruments of labour. Man pursues his happiness with a steady step. This, to each individual, consists in the possession of different employments. Extensive wealth generally produces the love of repose, and an unlimited indulgence of all those propenlities which delight in extravagant and fenfual enjoyments. Dishonest ambition grasps power as the means of obtaining distinction and all its attendant possessions. Wealth generally follows in its train, and the power to oppress is seldom separated from the practice of it. One rich or powerful man may be compared to a whale, who daily devours hundreds of the weaker inhabitants of the ocean; for what other name does that oppression deferve, which hurries out of existence at a premature period, by immoderate labour, the larger portion of the human race, and renders them miserable while they do exist.

The labour that furnishes the necessaries and conveniences of life is rationally directed. So far all are agreed. The acquisitions of honest industry should ever be held facred. They seldom furnish a competence till advanced periods of life, when an exemption from toil, and a freedom from care, are the merited rewards of a life of usefulness and virtue. We will not even dispute the pretensions of hereditary endowments, that confer, often on profligacy, immense wealth. However equivocal the pretensions of these when overgrown to equitable protection, they have acquired a venerable sanction from the approbation of

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Vol. III.

TONQUIN CONJURORS.

HEN a Tonquinese, is about to purchase a field, undertake a journey, or marry one of his children, he goes and consults a conjurer, who pretends to be blind, in order to let him know that he hears and sees nothing but truth: before he gives an answer, he takes a book; but he opens it only half, as if he were affraid of suffering prophane eyes to see what it contains. After having asked the age of the person who comes to consult him, he throws into the air two small pieces of copper, on which are engraved, on one side only, certain cabalistical sigures or characters. If when the pieces fall to the ground, the sigures turned towards the earth, it presages missortune, but if, on the contrary, they are turned toward the heavens, the omen is happy. This manner of fortune tel-

ling is very common among the Tonquinese.

There are other magicians, who are only confulted for the cure of diseases—If the conjuror announces that the disease proceeds from spirits, they call them wicked genii, and shut them up in earthen vases; if it come from the devil, they invite the father of liars to a grand feast, which is given at the expence of the sick person's family; they assign him the most honourable place, pray to him, invoke him, and offer him presents; but if the disease does not abate, they load him with injuries, and fire twenty or thirty maskets to drive him from the house. If it is the god of the sea who has occasioned the distemper, they repair to the banks of some river, where they offer up facrifices to appease him, and to intreat him to quit the sick person's chamber, and return to the waters. However, the sick person finds himself no better; and the magician takes his leave loaded with gold and presents.

Tong-king has its Mino-tese as well as China. These are savage and ignorant mountaineers, who, having shaken off the yoke of every nation, have retired to inaccessible mountains, where they lead a life much resembling that of those serocious wild beasts which inhabit the same rocks with them. They form a kind of republic, of which their priest is the head. This chief has devised a particular system of religion and rites, which have no relation with those of the Tonquinese. It is generally in the houses of the priests, that their gods deliver oracles. A great

noise announces their arrival. These mountaineers, who in waiting for them pass the time in drinking and dancing, immediately put a stop to their diversions, and send forth loud shouts of joy, which are more like howlings that acclamations: Father! say they, addressing themselves to their principal god, art thou already come? A voice then answers, Be of good cheer, my children, eat, drink and rejoice; it is I who produre you all those advantages which you enjoy. After these words, to which they listen with silence, they again return to their pleasures. The gods however become thirsty in their turn, and ask for something to drink; vases ornamented with slowers are immediately prepared, and the priest receives them to carry them to the gods; for he is the only person who is permitted to approach or converse with them.

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LANT'S JOURNEY TO THE INTERIOR PARTS OF AFRICA.

HIS learned naturalist, who has resided five years in the fouthern parts of Africa, departed from the Cape of Good Hope with three waggons, each drawn by ten oxen, in order to make observations in natural history and botany. Several dogs, a cock, and an ape followed. Among his baggage he carried three hundred pounds of lead, and powder in proportion, to make cartouches. Ten Hottentots, whose language he underflands, accompanied him. He had abundance of provisions, and a fufficient quantity of strong liquors. Attended by this train, he passed, without any danger, through the territories of different petty fovereigns; after which he found only hordes, who received him with much friendship, and who often put themselves under his protection. These tribes are Nomrades, or wandering people, who fojourn in one part of the country no longer than while they find provisions; they often emigrate, and fometimes to a great distance. The country through which he travelled was rude in its aspect, and so difficult to be passed, that his attendants were obliged, from time to time, to cut down we wood, in order to make a passage. When he had advanced

fuccess. At the end of the mock-fight one of the Swedish officers exclaimed, "We are undone now!" The king replied, "Let the Peles obtain the battle on the slage, but the Swedes in the field."

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His voice was heard by Lady Koningfinark, who knew him at once, and with great anxiety dispatched a page to apprize him of his danger. When the king received the inessage, he looked towards the lady, who immediately fainted. The king and his attendants took the hint which had been so kindly given them, and returned to the camp, before the Poles gained the least intelligence that the august person had been present in the very heart of the city as an humble spectator of the deseat of himself and his army.

THE ADVANTAGES OF CLEANLINESS IN PREVENTING INFECTIOUS DISEASES.

IT is a proverb in the Levant, that no Frince ever died of the plague; the meaning of which only is that opulence, and the many resources it affords, are preventatives against that contagion. Of this we have feen recent inflances in the peffilence which lately ravaged Algiers. It has been remarked, that none of those who enjoyed the first offices of the state, were attacked by this distemper, though, according to the precepts of the Mahometan religion, they were obliged to appear in public, as at any other time, and though in compliance with general custom, they gave their hand to be kissed indiscriminately, to every Moor who came to beg justice, and to throw himfelf under their protection. This contagious disorder was not therefore communicated to them by contact; which must be, attributed to their great cleanliness, to the use of baths, and to the frequent ablutions which are prescribed them by the law of Mahomet. We know that the Mahometans pray five or fix times a day, and that at each prayer, those whose situation will permit, purify themselves by washing their hands; they generally make three meals every day, and each meal is preceded by the same ablutions; they wash themselves also every time they touch any thing unclean; fo that in this respect, their religious rites are very much fuited to the nature of the climate, and become very falutary to them; fince it is known by experience, that water alone is sufficient to carry off the conta-

gious impurity of the pestilence.

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For a like reason, the subaltern officers belonging to the bousehold of the Dey of Algies, such as those who inspected the different departments, fecretaries, clerks in the various offices, &cc. in general escape the plague; though they preserve, during the time this dreadful epidemical diforder is reigning, an open communication with the other Moors. Of three hundred officers of this kind there were only two attacks during the last plague at Algiers; which must appear almost miraculous, fince the populace perished by thousands, and easily caught the infection, on account of their dirtiness, and negligence respecting their persons. There is above all a particular sect of Mahometans, who observe several points of the Mosaic law, and who in general, exercise mean, but lucrative employments; such as ferving in the public baths, felling old clothes, &c. Thefe Mahometan Jews, attached to all the minute care of a retail trade, and living in meanness and filth, were swept off almost entirely by the last plague at Algiers; which undoubtedly still more confirms the great advantages of cleanliness.

The more attention we pay to the phenomena of contagious disorders, such as the plague, malignant fevers, the small pox, &c. we shall cease to consider the rinciple of contagion as dispersed throughout the air; and it is now more and more confirmed by observation, that these diseases are communicated by contact either mediate or immediate. One cannot therefore during epidemical dissempers of this kind, too strongly recommend cleanliness to those who approach the sick, or too much exhort them to change their dress as frequently as possible; to keep exposed to the air the clothes which they have used, or to dip them in water; to wash the hands and face frequently, and to make this a general rule, above all when they have touched either the clothes or linen of a diseased person. This attention will be of the greatest service in stopping the course

of infection, but unluckily it is too much neglected.

tention, as perhaps they may overturn the theory, which I have admitted, of the identity of the nervous and electric fluids. The rest, however, the inertness of which I have been speaking, are not constant; for my electrical conductors produced their effects, sometimes in a quarter of an

hour, at others in half an hour."

Dr. Valli drowned some chickens, and afterwards excited their electricity in their wings, which he had previously prepared: the muscles of some of them remained motionless; those of others were strongly agitated; and two, which were to all appearance dead, were restored to life. Chickens killed in nitrous, mephitic, or inflammable air, always gave very seeble shocks, and none of them were restored to life.

From some experiments which Dr. Valli has made with frogs, he infers, that the animal electricity is capable of moving through a part in opposite directions at the same time, though the two currents in some measure impede each other, and one may totally stop the other if its sorce be considerably superior. Thus the will moves a part which is at the same time conveying to the common sensorium the sensation of pain; and thus violent motion deadens pain, and violent pain prevents motion.

Chickens killed by a mortification of the intestines, brought on by means of a ligature on them, gave no signs of electricity. Chickens and rabbits starved to death had

the usual experiments tried on them equally in vain.

ANECDOTE OF CHARLES XII. KING OF SWEDEN.

In the citadel of Stockholm we were shewn a set of small ordnance which belonged to King Charles XII. confishing of sour and twenty brass cannon, mounted on their carriages. Very early in lite, before his love of destruction had occasioned to many wild adventures, he used to amuse himself with siring at objects with his artillery. Probably it would have been happier for him, as well as his country, if he had always been thus innocently employed. Gen

neral Steabork was the prince's instructor in this science. He had discovered several improvements in the art of gunnery, and got this set of brass cannon cast to illustrate his principles to his royal pupil, for whom he intended them as a present.

There is an anecdote related of this prince, which happened at the time of his receiving the present. As it, in some measure, had an instruence on his future conduct towards the ladies, I will tell it you, without, however,

vouching for its authenticity.

Very early the next morning, after he had received this prefeat, before it was light, he waited privately upon the general. After much knocking, the door was opened by a maid-fervant, and in a few moments the royal visitor was at the bed-side of the general. After returning thanks for so acceptable a prefent, and a long discourse on the general's new plan of sending a cannon-ball to its greatest distance, he took his leave, and was lighted down stairs by the same maid servant that introduced him.

Though unaccustomed to acts of gallantry, and always upon his guard against excesses of this kind, yet for once Charles was surprized by an amorous inclination. Observing the attendant to be a young and handsome girl, he attempted to take some liberties with her which were not agreeable. Being a native of Dahlarna, and not knowing, or pretending not to know, the prince, she gave him an

hearty box on the ear.

From this time, it is faid, he took a dislike to the fairfex: it is certain that he never afterwards sought their society. Even the beautiful Lady Koningsmark, who was reckoned the handsomest woman of that time, could never make any impression upon his heart. When this lady sound herself slighted, she left the kingdom, and became

miltress to the king of Poland.

From that time, they never met but once; when that was I think I will inform you, as I am now in the humour for telling a story. At the time King Charles the XIIth laid siege to Warsaw, he, with very sew attendants, leit the camp, and rode privately to the city, to see an opera which was to be represented that evening. The subject probably had attracted him, and he did not always consider the consequences of a rash action. This was a representation of a battle between the Polish and Swedish armies, the former of which, upon this occasion, was certain of

the animal part is nearly extinct, no farther fign of it is obtained. Different metals employed for the coating, or as exciters, exhibit fingular phaenomena. With filver and gold, for instance, the animal gives very slight marks of vitality, if any. When Dr. Valli had found that the fluid might be made to circulate by means of coating the muscle alone, he tried the experiment without denudating the muscle. It did not always succeed: though it gene. rally did, if two coatings were used. On himself the doctor tried the experiment several times, but without success. The movements produced by these artificial means, differ from those which the animal produces by volition: or rather the two movements are effected in totally different manners. Dr. Valli stripped the thigh of a living frog of all its muscles, without injuring the crural nerve which he coated near the spine. This coating he touched with one of the extremities of the exciter; and the bare nerve, or the muscles of the leg, with the other. The leg remained unmoved, though the animal occasionally moved this very limb, which would not yield to the experiment. At other times, on the contrary, the frog made no fpontaneous movement, whilst violent ones were excited by the conductor. On the application of opium to a nerve, the animal lost the power of moving the parts to which it was distributed; yet the conductor excited motion in them. Vitriolic and nitrous acids applied to the heart destroyed its movement; applied to the muscles and nerves of other parts, they did not destroy theirs. Frogs killed in water at different degrees of heat, from 362 to 83° of Reaumur, forded figns of vitality, though weak to the exciter: killed in frozen water, they loft little or nothing. Doctor Valli opened a mouse just dead, coated the fore legs, and touched the coating and the muscle. No motion took place in the limbs; but the hair briftled up at the approach of the conductor, and feemed as if agituted by a gentle wind. In another mouse, fixed to a table alive, strong emotions were excited. In a rat no-metion took place, and no agitation of the hair was perceivable. Having coated the four paws of a tortoile, they all moved firongly, though flowly, and with a motion fimilar to that which is peculiar to the animal. The experiment was continued for two hours at different periods; but Dr. Valli found himself at last obliged to allow the

of rest of some minutes, before it would exhibit fresh signs of electricity. The same phaenomena may be observed in all other animals.—Dr. Valli conjectures, that the nerve may be continually drawing the electric fluid from the interior furface of the mufcle, which is thus deprived of a portion of its electricity, whilst the external surface remains always in the same state. To establish this hypo. thesis, he conceived some experiments, of which the following is the principal. He opened the abdomen of a living frog to lay bare the crural nerves. One he cut, the other he left untouched: he divided also the muscles of both thighs. Having coated each of the nerves, he made the discharge with the exciter alternately in the two limbs. The limb of which the nerve was cut preferved its vitality longer than the other. In this experiment, however, the effect was not always uniform.

Dr. Valli made many experiments to determine whether the blood vessels and other parts were conductors, or not; and from them he insers, that they are conductors, but that the nerves alone are capable of exciting motion in the muscles. The bones are not conductors when divested

of the periofteum: and malory fullity managem sugar

In experiments made with a chicken, feveral curious cir. cumstances occurred. Dr. Valli laid bare the nerves of the wings. His feiffars paffed underneath ferved as a coat. ing, and a crown piece for the exciter. The motions were very brifk. During thefe electric discharges the animal appeared perfectly tranquil. For some moments the wing remained at rest in spite of the exciter. The doctor had. then recourse to a coating of lead, and an exciter of copper, but the wing still remained motionless. To find whether this were owing to the insensibility, or the inert state of the nerve, or rather from the mulcular fibres being fatigued, he pricked and flimulated the coated nerve: at this the chicken uttered sharp cries of complaint, and shook the wing brickly four or five times. Having thus stimulated it, he tried again a filver conductor, but without effect. In the mean time he coated other nervous filaments which were distributed through the same wing, and from them obtained motions in the or linary way. Some time after the fame obstacles as above offered themselves; which appeared the more fingular, as the animal moved its wing from time to time, and motion could be excited in it by mechanical stimuli. "These facts," says the doctor, " deserve at-

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AMERICAN

UNIVERSAL MAGAZINE.

NOVEMBER 15, 1797.

ON ELECTRICITY.

BY M. VALLI, M. D.

R. VALLI begins with avowing a mistake he had made, in faying, that the coats of the nerves had need of a coating to give a free passage to the electric matter. The coating is indeed necessary, but for another purpose. In fact, movement is obtained, whether it be the nerve, of the muscle itself, that is coated. Still, however, it appears, that the membranes of the nerves are bad conductors. If the nerve be tied close to the mulcle, the experiment will not fucceed: the electric fluid, finding in the muscle a better conductor than in the nerve, quits the latter, and confequently deviates from the path which it ought to take to excite the irritability of the mulcular fibre whence motion is produced. On the contrary, when the nerve is tied at a distance from the muscle, the electric sluid, having no other road to take, purlues its course without being diffipated, and motion enfues. Motion is obtained, not only when the curved metallic conducting rod or exciter, is passed from the muscle to the nerve, but when it is passed from muscle to muscle, or from nerve to nerve. It is unnecessary to observe, that in these cases one of the parts must be coated.

If both nerve and muscle be coated with the same metal, some signs of electricity may be obtained by means of a conductor of a different metal: but when the vitality of For the American Universal Magazine.



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TOHN HOWARD,

THE AMERICAN

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